API Well Number: 43047527700000

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

## APPLICATION FOR PERMIT TO DRILL

**1. WELL NAME and NUMBER**
THREE RIVERS FEDERAL 8-52-820

**2. TYPE OF WORK**
DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○

**3. FIELD OR WILDCAT**
WILDCAT

**4. TYPE OF WELL**
Oil Well Coalbed Methane Well: NO

**5. UNIT or COMMUNITIZATION AGREEMENT NAME**

**6. NAME OF OPERATOR**
AXIA ENERGY LLC

**7. OPERATOR PHONE**
720 746-5200

**8. ADDRESS OF OPERATOR**
1430 Larimer Ste 400, Denver, CO, 80202

**9. OPERATOR E-MAIL**
rsatre@axiaenergy.com

**10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)**
UTU85994

**11. MINERAL OWNERSHIP**
FEDERAL ◉ INDIAN ○ STATE ○ FEE ○

**12. SURFACE OWNERSHIP**
FEDERAL ◉ INDIAN ○ STATE ○ FEE ○

**13. NAME OF SURFACE OWNER (if box 12 = 'fee')**

**14. SURFACE OWNER PHONE (if box 12 = 'fee')**

**15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')**

**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**

**17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')**

**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS**
YES ○ (Submit Commingling Application) NO ◉

**19. SLANT**
VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○

| 20. LOCATION OF WELL | FOOTAGES | QTR-QTR | SECTION | TOWNSHIP | RANGE | MERIDIAN |
|---|---|---|---|---|---|---|
| LOCATION AT SURFACE | 2112 FNL 1200 FEL | SENE | 8 | 8.0 S | 20.0 E | S |
| Top of Uppermost Producing Zone | 1584 FNL 1332 FEL | SENE | 8 | 8.0 S | 20.0 E | S |
| At Total Depth | 1584 FNL 1332 FEL | SENE | 8 | 8.0 S | 20.0 E | S |

**21. COUNTY**
UINTAH

**22. DISTANCE TO NEAREST LEASE LINE (Feet)**
1200

**23. NUMBER OF ACRES IN DRILLING UNIT**
40

**25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)**
16

**26. PROPOSED DEPTH**
MD: 8798 TVD: 8722

**27. ELEVATION - GROUND LEVEL**
4747

**28. BOND NUMBER**
LPM9046683

**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE**
49-2262 - RNI at Green River

### Hole, Casing, and Cement Information

| String | Hole Size | Casing Size | Length | Weight | Grade & Thread | Max Mud Wt. | Cement | Sacks | Yield | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| SURF | 11 | 8.625 | 0 - 900 | 32.0 | J-55 LT&C | 8.7 | Premium Lite High Strength | 70 | 2.97 | 11.5 |
| | | | | | | | Class G | 115 | 1.16 | 15.8 |
| PROD | 7.875 | 5.5 | 0 - 8798 | 17.0 | N-80 LT&C | 9.2 | Premium Lite High Strength | 825 | 2.31 | 12.0 |

### ATTACHMENTS

**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

**NAME** Don Hamilton **TITLE** Permitting Agent (Buys & Associates, Inc) **PHONE** 435 719-2018

**SIGNATURE** **DATE** 05/29/2012 **EMAIL** starpoint@etv.net

**API NUMBER ASSIGNED**
43047527700000

**APPROVAL**
Permit Manager

CONFIDENTIAL

RECEIVED: June 11, 2012

# DRILLING PLAN

**Axia Energy, LLC**
**Three Rivers Project**
**Three Rivers Federal #8-52-820**
**SENE Sec 8 T8S R20E**
**Uintah County, Utah**

## 1. ESTIMATED FORMATION TOPS

| FORMATION | | TOP (TVD) | COMMENTS |
|---|---|---|---|
| Uinta | | Surface | Gas & Degraded Oil; Possible Brackish $H_2O$ |
| Green River | | 2,742′ | Oil & Associated Gas |
| Lower Green River* | | 4,697′ | Oil & Associated Gas |
| Wasatch* | | 6,669′ | Oil & Associated Gas |
| TD | 8,798′ (MD) | 8,722′ (TVD) | |

NOTE: Datum, Ground Level (GL) Elevation: 4,746′; Asterisks (*) denotes target pay intervals

**A)** The Bureau of Land Management (BLM) will be notified within 24 hours of spudding the well. The State of Utah, Division of Oil, Gas and Mining will be notified within 24 hours of spudding the well.



## 2. CASING PROGRAM

| CASING | HOLE SIZE | DEPTH SET (MD) | CSG SIZE | WGHT | GRD | THRD | CAPACITY (bbl/ft) |
|---|---|---|---|---|---|---|---|
| CONDUCTOR | | 50-75 | 13 3/8 | | | | |
| SURFACE | 11 | 900 ± | 8 ⅝ | 32.0 | J-55 | LTC | 0.0609 |
| PRODUCTION | 7 ⅞ | 8,798′ | 5 ½ | 17.0 | N-80 | LTC | 0.0232 |

NOTE: All casing depth intervals are to surface unless otherwise noted.

***Casing Specs***

| SIZE (in) | ID (in) | DRIFT DIA (in) | COLLAPSE RESISTANCE (psi) | INTERNAL YIELD (psi) | TENSILE YIELD (lbs) | JOINT STRENGTH (lbs) |
|---|---|---|---|---|---|---|
| 8 ⅝ | 7.921 | 7.796 | 2,530 | 3,930 | 503,000 | 417,000 |
| 5 ½ | 4.892 | 4.767 | 6,280 | 7,740 | 397,000 | 348,000 |

**A)** The Bureau of Land Management will be notified 24 hours prior to running casing, cementing, and BOPE testing

**B)** As per 43 CFR 3160, Onshore Oil and Gas Order No. 2, Drilling Operations, Part B.1 h:

a) Prior to drilling out cement, all casing strings will be pressure tested to 0.22 psi/ft of casing length or 1500 psi, whichever is greater, but not to exceed 70% of minimum internal yield. Pressure decline must not be greater than 10% in 30 minutes.

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**FLOAT EQUIPMENT**

**SURFACE (8 ⅝):** Float Shoe, 1 JNT Casing, Float Collar

Centralizers: 1st 4 Joints: every joint
Remainder: every third joint

**PRODUCTION (5 ½):** Float Shoe, 1 JNT Casing, Float Collar

Centralizers: 1st 4 Joints: every joint
Remainder: every third joint 500' into surface casing

NOTE: 5 ½" 17# N-80 or equivalent marker collar or casing joints will be placed at the top of the Green River and approximately 400' above the Wasatch.

## 3. CEMENT PROGRAM

**CONDUCTOR (13 ⅜):** Ready Mix – Cement to surface

**SURFACE (8 ⅝):** Cement Top: Surface

Lead: 70 sks, Premium Lightweight Cmt w/ additives, 11.50 ppg, 2.97 cf/sk, 50% excess

Tail: 115 sks Class G Cement w/ additives, 15.80 ppg, 1.16 cf/sk, 50% excess

NOTE: The above volumes are based on a gauge-hole + 50% excess.

**PRODUCTION (5 ½):** Cement Top – 2,700'

825 sacks – Light Premium Cement w/ additives – 12.0 ppg, 2.31 ft3/sk – 20% excess

NOTE: The above volumes are based on gauge hole + 20% excess. Adjustments will be made and volumes will be caliper + 10%.



NOTE: The above volumes are based on a gauged-hole. Adjustments will be made based on caliper.

**A)** For Surface casing, if cement falls or does not circulate to surface, cement will be topped off.

**B)** Cement will not be placed down annulus with a 1" pipe unless BLM is contacted.

**C)** The Bureau of Land Management will be notified 24 hours prior to running casing and cementing.

**D)** As per 43 CFR 3160, Onshore Oil and Gas Order No.2, Drilling Operations, Part B:

a) All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe (minimum of 8 hours) prior to drilling out.

b) Prior to drilling out cement, casing will be pressure tested to 1500 psi. Pressure decline must not be greater than 10% (150 psi) in 30 minutes.

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## 4. PRESSURE CONTROL EQUIPMENT

**A)** The Bureau of Land Management will be notified 24 hours prior to all BOPE pressure tests. The State of Utah, Division of Oil, Gas and Mining will be notified 24 hours prior to all BOPE pressure tests.

**B)** The BOPE shall be closed whenever the well is unattended.

**C)** As per 43 CFR 3160, Onshore Oil and Gas Order No. 2, Drilling Operations, Part A:

a) All BOPE connections subjected to well pressure will be flanged, welded, or clamped.

b) Choke Manifold:

i) Tee blocks or targeted 'T's will be used and anchored to prevent slip and reduce vibration.

ii) Two adjustable chokes will be used in the choke manifold.

iii) All valves (except chokes) in kill line choke manifold and choke line will not restrict the flow.

iv) Pressure gauges in the well control system will be designed for drilling fluid.

**D)** BOPE Testing:

a) BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, or after repairs.

b) All BOP tests will be performed with a test plug in place.

c) BOP will be tested to full stack working pressure and annular preventer to 50% stack working pressure.

| INTERVAL | BOP EQUIPMENT |
|---|---|
| 0 – 900 ± | 11" Diverter with Rotating Head |
| 900 ± – TD | 3,000# Ram Double BOP & Annular with Diverter & Rotating Head |

NOTE: Drilling spool to accommodate choke and kill lines.



## 5. MUD PROGRAM

**A)** Mud test will be performed at least every 24 hours and after mudding up to determine density, viscosity, gel strength, filtration, and pH.

**B)** Gas-detecting equipment will be installed and operated in the mud-return system from top of Green River Formation to TD.

a) Flare line discharge will be located no less than 100 feet from the wellhead using straight or targeted 'T's and anchors.

| INTERVAL | MUD WGHT | VISC | FLUID LOSS | COMMENTS |
|---|---|---|---|---|
| SURF – 900 ± | 8.4 – 8.7 ppg | 32 | NC | Spud Mud |
| 900 ± – TD | 8.6 – 9.2 ppg | 40 | NC | DAP/Gel |

NOTE: Mud weight increases will be directed by hole conditions.

## 6. ABNORMAL CONDITIONS

**A)** No abnormal pressures or temperatures are anticipated.

a) Estimated bottom hole pressure at TD will be approximately 3,777 psi (normal pressure gradient: 0.433 psi/ft).

b) Estimated maximum surface pressure will be approximately 1,919 psi (estimated bottom hole minus pressure of partially evacuated hole (gradient: 0.220 psi/ft)).

**B)** No hydrogen sulfide is anticipated.

RECEIVED: May 29, 2012

| INTERVAL | CONDITION |
|---|---|
| SURF – 900 ± | Lost Circulation Possible |
| 900 ± – TD | Lost Circulation Possible |

## 7. AUXILIARY EQUIPMENT

**A)** Choke Manifold

**B)** Upper and lower kelly cock with handle available

**C)** Stabbing valve

**D)** Safety valve and subs to fit all string connections in use

## 8. SURVEY & LOGGING PROGRAMS

**A)** Cores: None anticipated.

**B)** Testing: None anticipated.

**C)** Directional Drilling: Directional tools will be used to locate the bottom hole per the attached directional plan +/-.

**D)** Open Hole Logs: TD to surface casing: resistivity, neutron density, gamma ray and caliper.

**E)** Mud Logs: Computerized 2-person logging unit will catch and describe 10 foot samples from top of Green River Formation to TD; record and monitor gas shows and record drill times (normal mud logging duties).



## 9. HAZARDOUS MATERIALS

In accordance with Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, no chemicals subject to reporting in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities (TPQ), will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

RECEIVED: May 29, 2012

API Well Number: 43047527700000

# T8S, R20E, S.L.B.&M.

## AXIA ENERGY

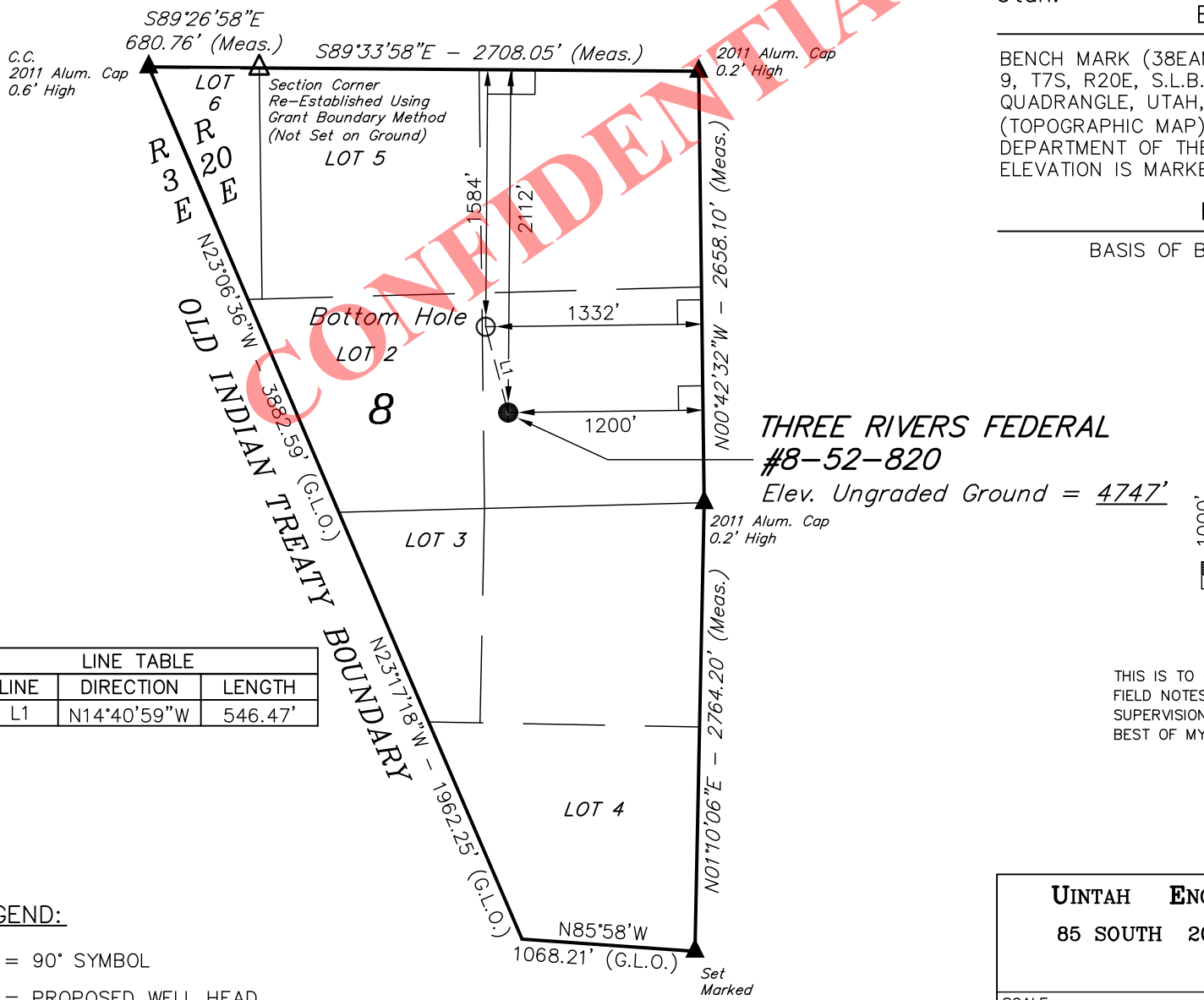
Well location, THREE RIVERS FEDERAL #8-52-820, located as shown in the SE 1/4 NE 1/4 of Section 8, T8S, R20E, S.L.B.&M., Uintah County, Utah.

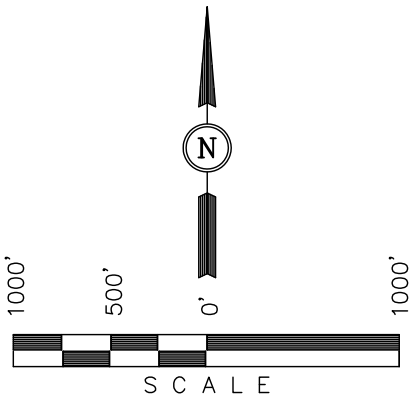
## BASIS OF ELEVATION

BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

## BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



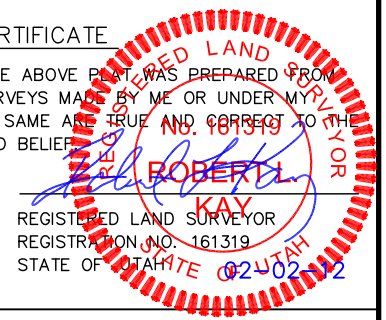

| LINE TABLE | | |
|---|---|---|
| LINE | DIRECTION | LENGTH |
| L1 | N14°40'59"W | 546.47' |

CONFIDENTIAL

### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH




LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

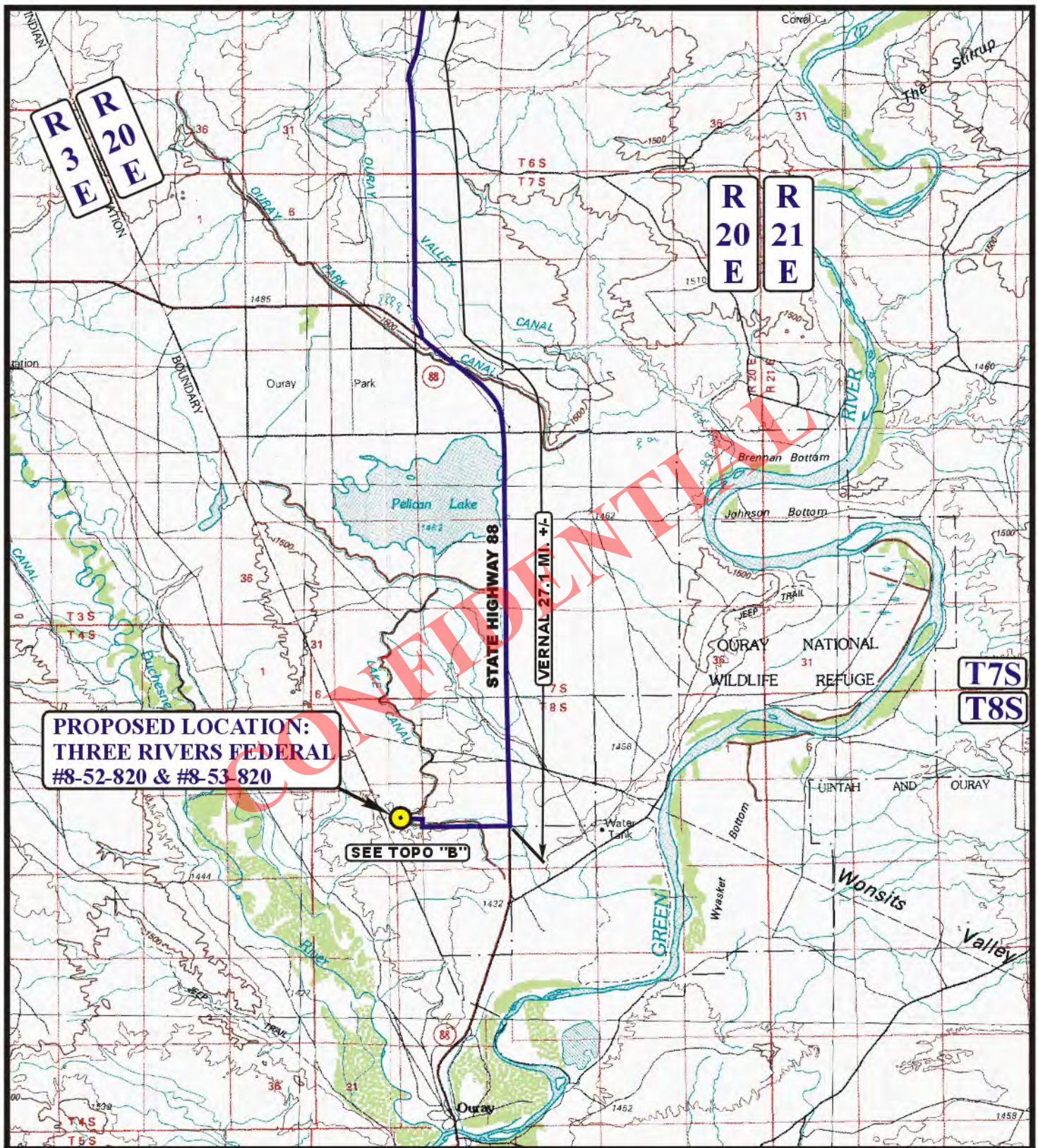
| NAD 83 (TARGET BOTTOM HOLE) | NAD 83 (SURFACE LOCATION) |
|---|---|
| LATITUDE = 40°08'24.01" (40.140003) | LATITUDE = 40°08'18.78" (40.138550) |
| LONGITUDE = 109°41'15.61" (109.687669) | LONGITUDE = 109°41'13.82" (109.687172) |
| **NAD 27 (TARGET BOTTOM HOLE)** | **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°08'24.14" (40.140039) | LATITUDE = 40°08'18.91" (40.138586) |
| LONGITUDE = 109°41'13.11" (109.686975) | LONGITUDE = 109°41'11.32" (109.686478) |


**UINTAH ENGINEERING & LAND SURVEYING**
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017


| | | |
|---|---|---|
| SCALE: 1" = 1000' | DATE SURVEYED: 12-07-11 | DATE DRAWN: 02-02-12 |
| PARTY: C.R. S.R. H.W. | REFERENCES: G.L.O. PLAT | |
| WEATHER: COLD | FILE: AXIA ENERGY | |


RECEIVED: May 29, 2012

API Well Number: 43047527700000




**LEGEND:**

PROPOSED LOCATION

N

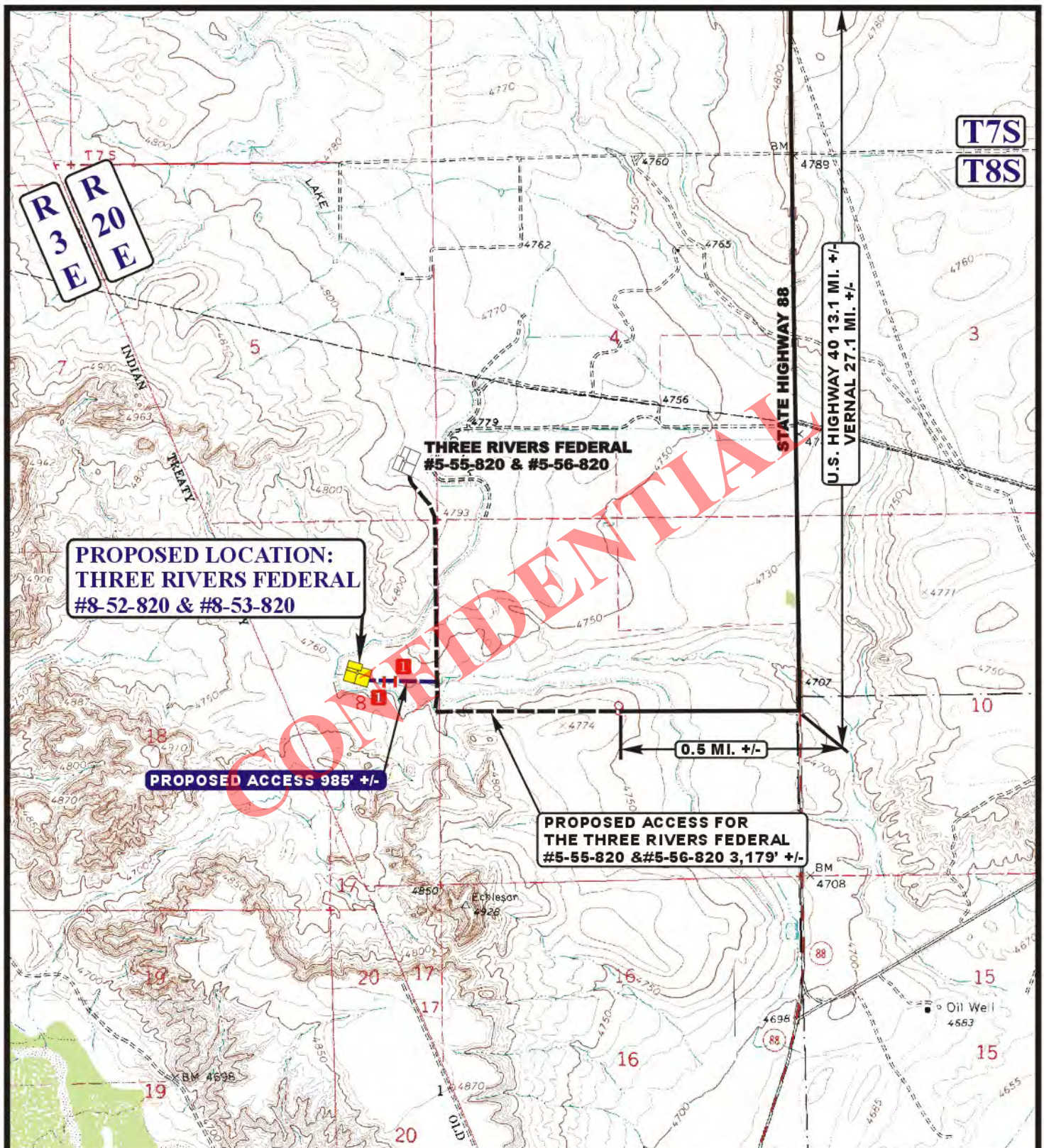
**AXIA ENERGY**

THREE RIVERS FEDERAL #8-52-820 & #8-53-820
SECTION 8, T8S, R20E, S.L.B.&M.
SE 1/4 NE 1/4


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813


| ACCESS ROAD MAP | 01 MONTH | 10 DAY | 12 YEAR | A TOPO |
|---|---|---|---|---|
| SCALE: 1:100,000 | DRAWN BY: A.T. | REVISED: 00-00-00 | | |

API Well Number: 43047527700000




**LEGEND:**

EXISTING ROAD
PROPOSED ACCESS ROAD
1 18" CMP REQUIRED

N

**AXIA ENERGY**

THREE RIVERS FEDERAL #8-52-820 & #8-53-820
SECTION 8, T8S, R20E, S.L.B.&M.
SE 1/4 NE 1/4


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

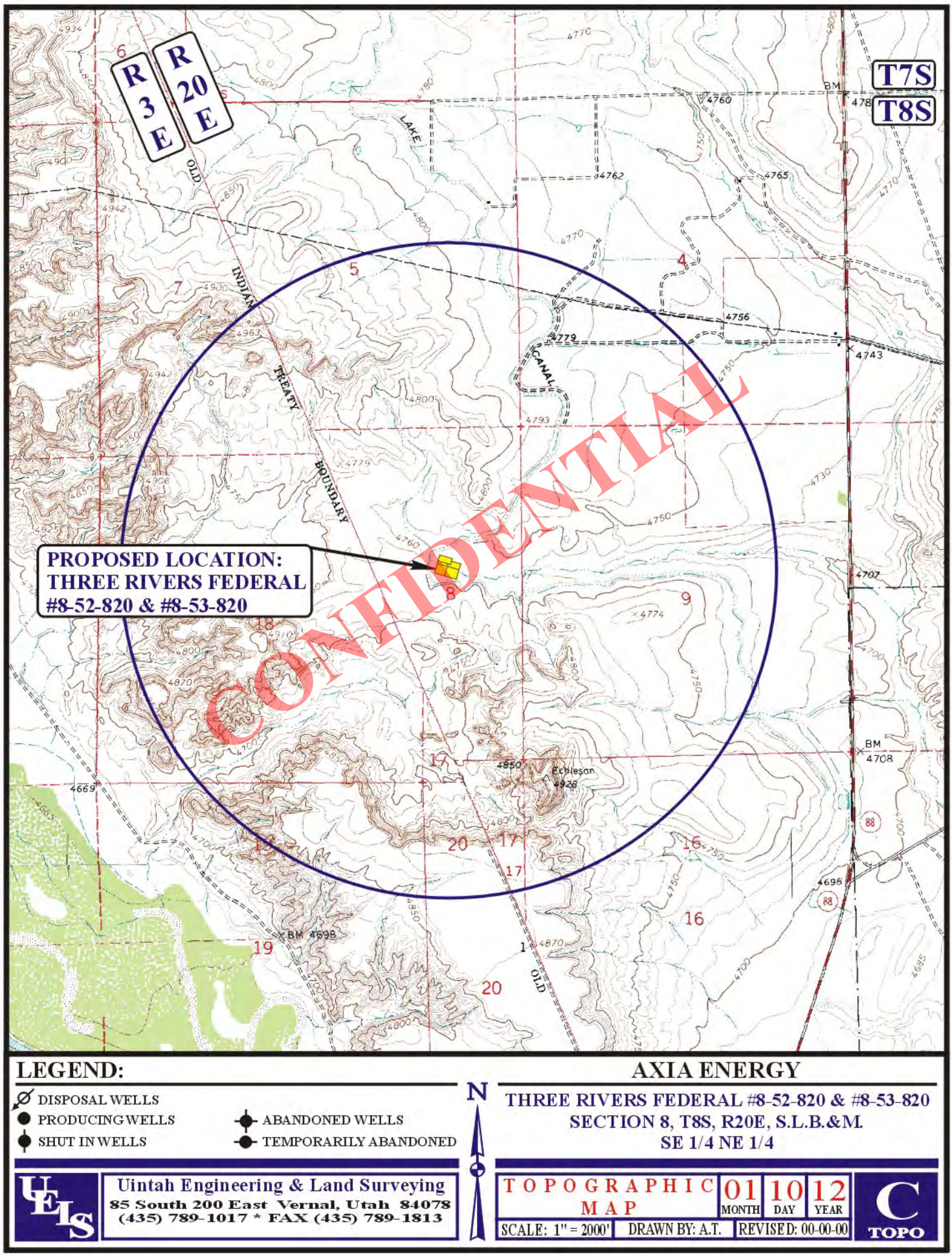

ACCESS ROAD MAP

01 MONTH | 10 DAY | 12 YEAR

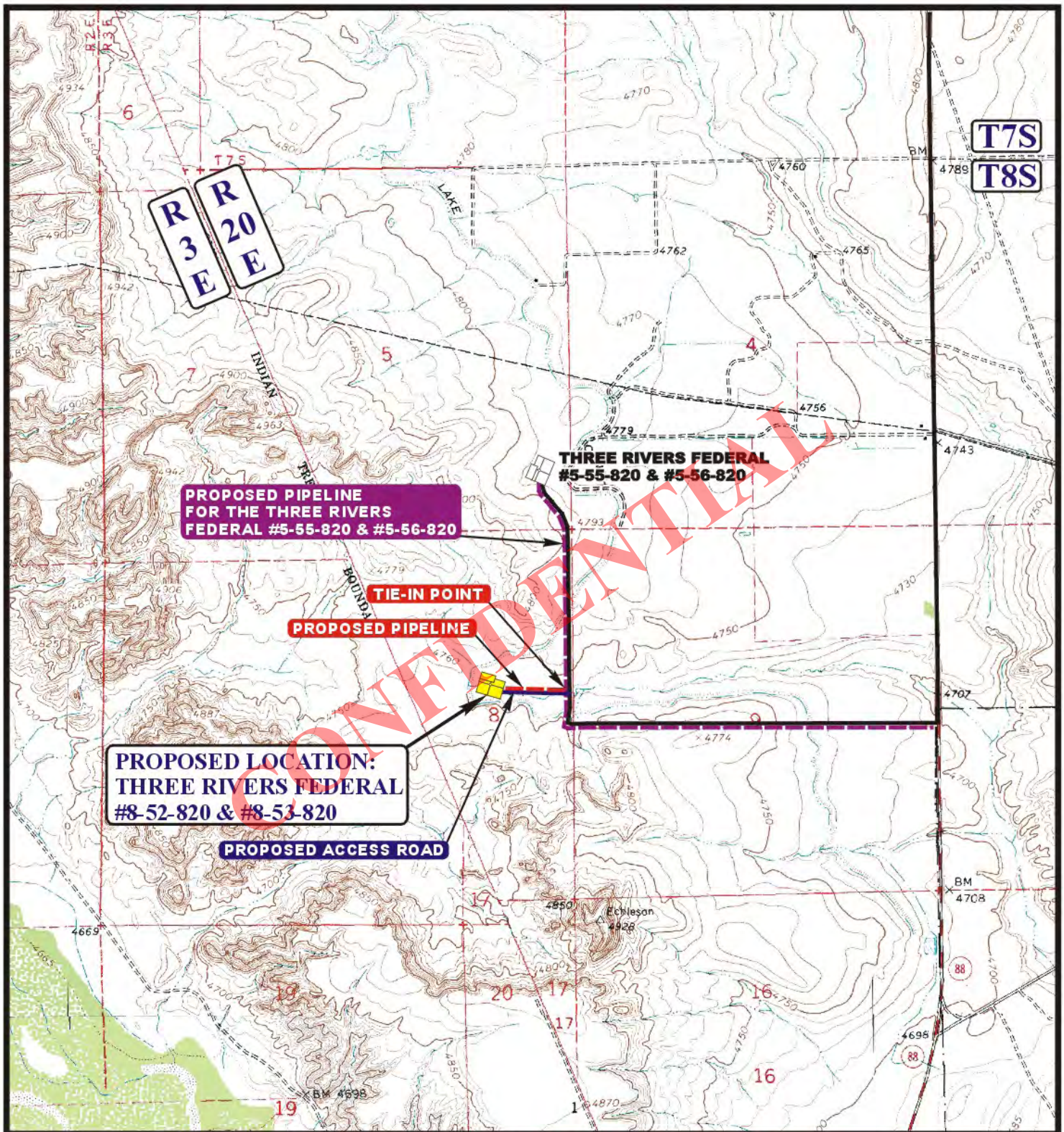
SCALE: 1" = 2000' | DRAWN BY: A.T. | REVISED: 04-09-12

B TOPO

API Well Number: 43047527700000



API Well Number: 43047527700000




APPROXIMATE TOTAL PIPELINE DISTANCE = 960' +/-

**LEGEND:**

PROPOSED ACCESS ROAD
PROPOSED PIPELINE
PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

**AXIA ENERGY**

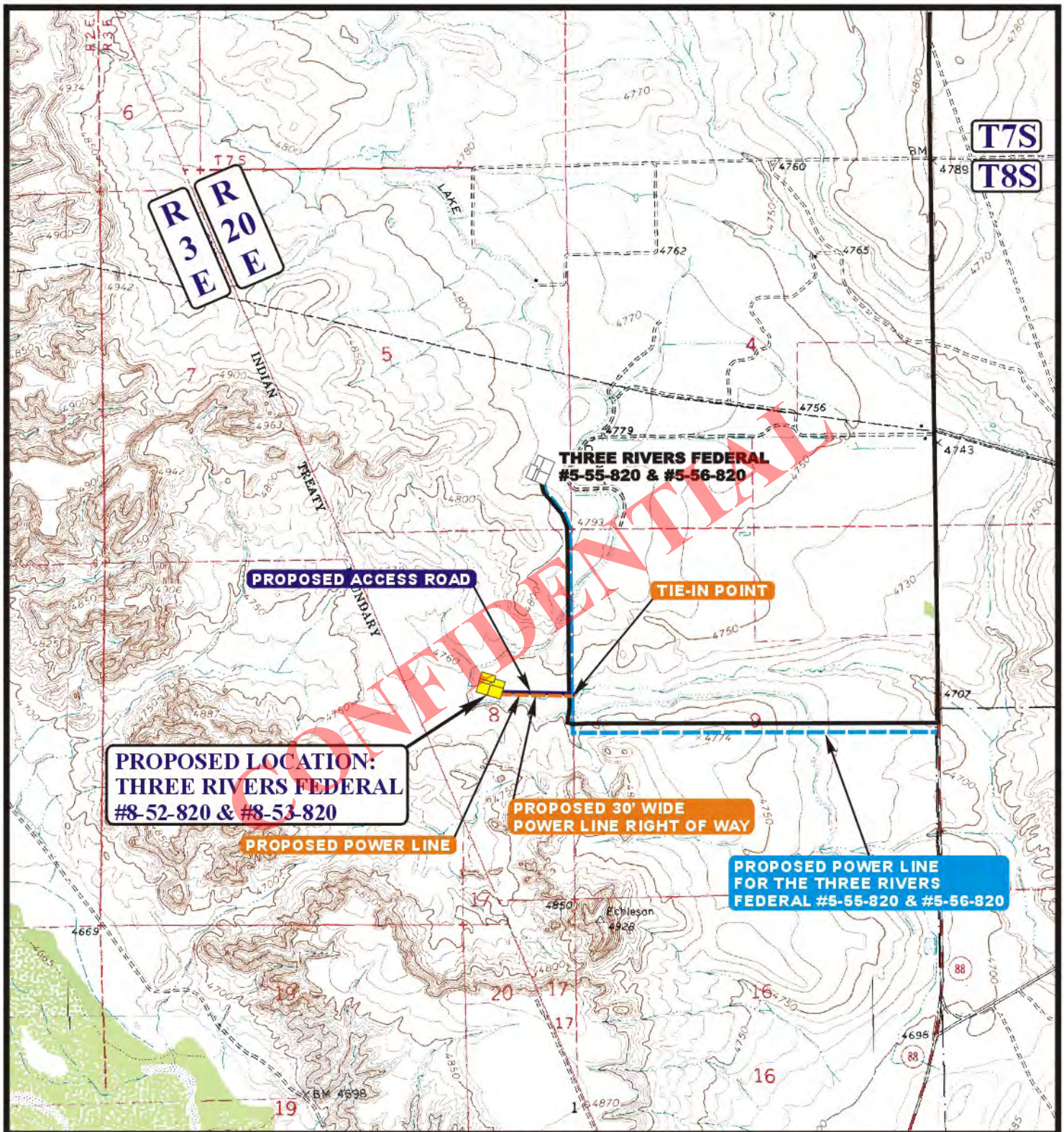
THREE RIVERS FEDERAL #8-52-820 & #8-53-820
SECTION 8, T8S, R20E, S.L.B.&M.
SE 1/4 NE 1/4


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813


TOPOGRAPHIC MAP | 04 MONTH | 09 DAY | 12 YEAR | D TOPO

SCALE: 1" = 2000' | DRAWN BY: A.T. | REVISED: 04-25-12

API Well Number: 43047527700000




APPROXIMATE TOTAL POWER LINE DISTANCE = 1,010' +/-

**LEGEND:**

PROPOSED ACCESS ROAD
PROPOSED POWER LINE
PROPOSED POWER LINE
(SERVICING OTHER WELLS)

N

**AXIA ENERGY**

THREE RIVERS FEDERAL #8-52-820 & #8-53-820
SECTION 8, T8S, R20E, S.L.B.&M.
SE 1/4 NE 1/4


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813


TOPOGRAPHIC MAP | 04 MONTH | 25 DAY | 12 YEAR | E TOPO

SCALE: 1" = 2000' | DRAWN BY: A.T. | REVISED: 00-00-00

API Well Number: 43047527700000

# Well Planning Proposal

FOR

**Axia Energy**
**Three Rivers Federal #8-52-820**
**Uintah Co., UT**



Well File: Design #1 (2/21/12)

Presented By:

Pat Rasmussen
Regional Manager

Bret Wolford
Well Planner

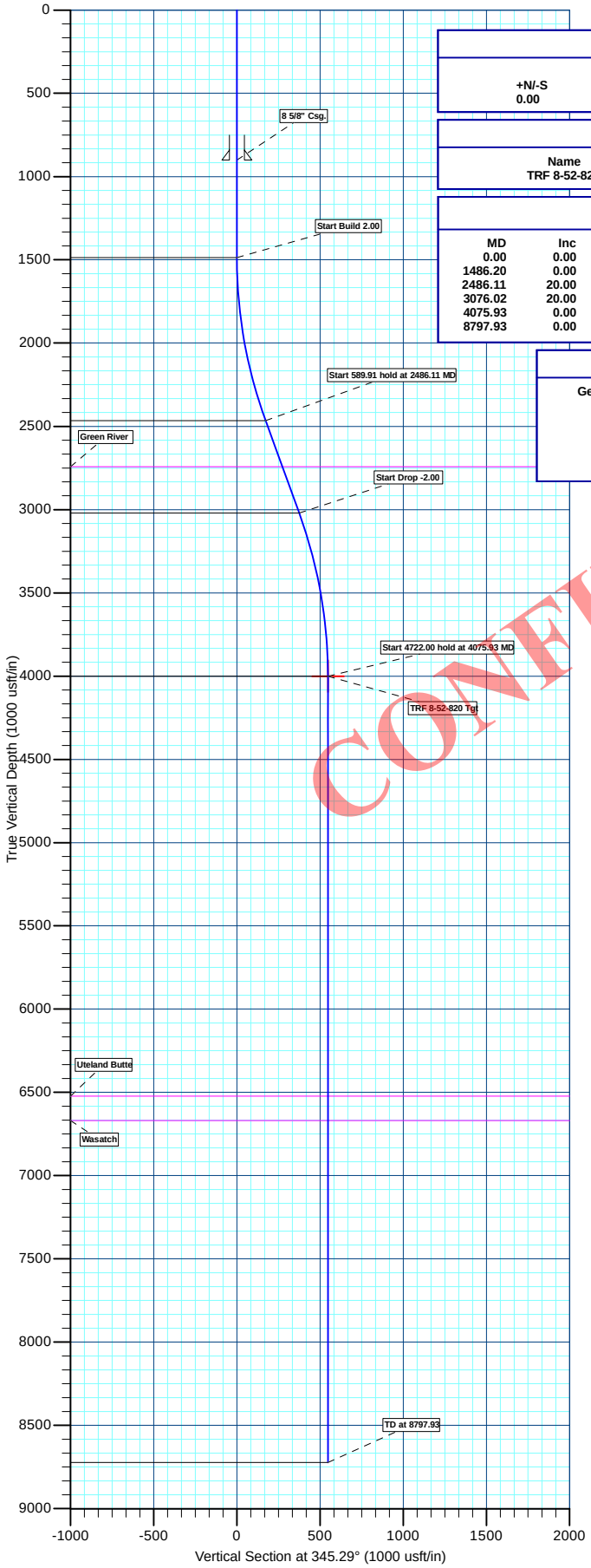
Shareewell Energy Services, LP

RECEIVED: May 29, 2012

API Well Number: 43047527700000

Axia Energy
Project: Uintah Co., UT
Site: Sec.8-T8S-R20E
Well: Three Rivers Federal #8-52-820
Wellbore: Wellbore #1
Design: Design #1
Latitude: 40° 8' 18.780 N
Longitude: 109° 41' 13.819 W
Ground Level: 4746.00
WELL @ 4762.00usft

Sharewell Energy Services, LP




**WELL DETAILS: Three Rivers Federal #8-52-820**

| +N/-S | +E/-W | Northing | Ground Level: 4746.00 Easting | Latittude | Longitude | Slot |
|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 7224327.265 | 2147197.164 | 40° 8' 18.780 N | 109° 41' 13.819 W | |

**WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)**

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|---|---|---|---|---|---|---|
| TRF 8-52-820 Tgt | 4000.00 | 529.28 | -138.94 | 40° 8' 24.011 N | 109° 41' 15.608 W | Point |

**SECTION DETAILS**

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Annotation |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1486.20 | 0.00 | 0.00 | 1486.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Build 2.00 |
| 2486.11 | 20.00 | 345.29 | 2465.93 | 167.08 | -43.86 | 2.00 | 345.29 | 172.74 | Start 589.91 hold at 2486.11 MD |
| 3076.02 | 20.00 | 345.29 | 3020.27 | 362.21 | -95.08 | 0.00 | 0.00 | 374.48 | Start Drop -2.00 |
| 4075.93 | 0.00 | 0.00 | 4000.00 | 529.28 | -138.94 | 2.00 | 180.00 | 547.22 | Start 4722.00 hold at 4075.93 MD |
| 8797.93 | 0.00 | 0.00 | 8722.00 | 529.28 | -138.94 | 0.00 | 0.00 | 547.22 | TD at 8797.93 |

**PROJECT DETAILS: Uintah Co., UT**

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

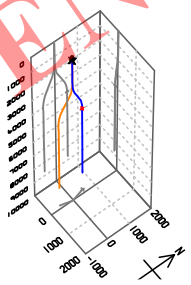
System Datum: Mean Sea Level

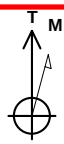
**REFERENCE INFORMATION**

Co-ordinate (N/E) Reference: Well Three Rivers Federal #8-52-820, True North
Vertical (TVD) Reference: WELL @ 4762.00usft
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: WELL @ 4762.00usft
Calculation Method: Minimum Curvature

**FORMATION TOP DETAILS**

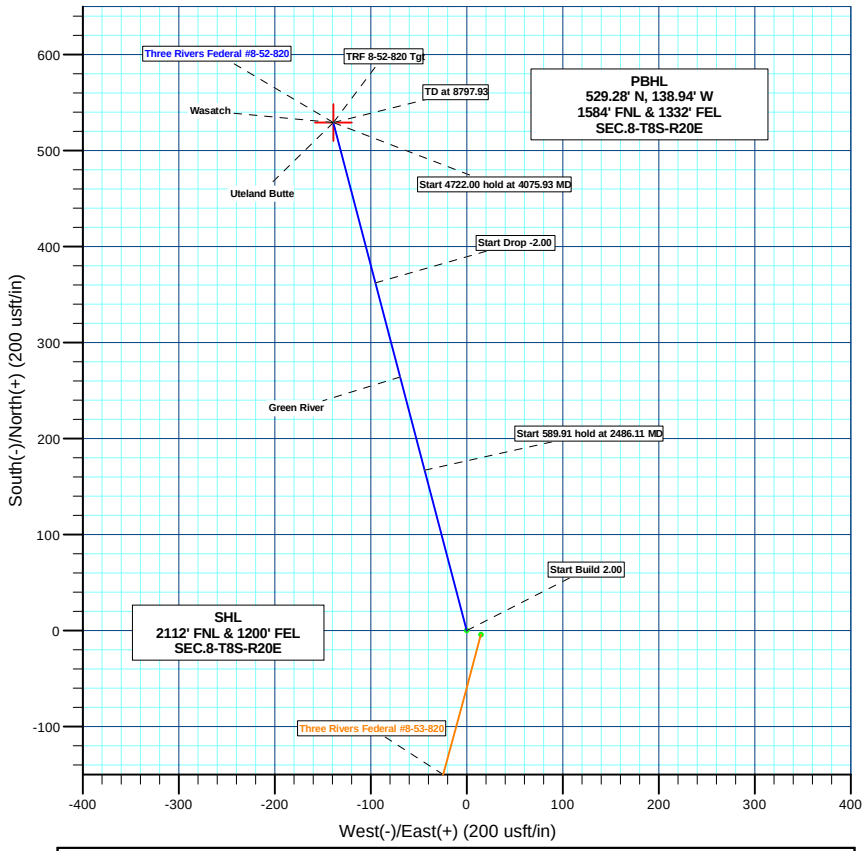
| TVDPath | MDPath | Formation |
|---|---|---|
| 2742.00 | 2779.89 | Green River |
| 6522.00 | 6597.93 | Uteland Butte |
| 6669.00 | 6744.93 | Wasatch |






Azimuths to True North
Magnetic North: 11.09°

Magnetic Field
Strength: 52311.8snT
Dip Angle: 65.93°
Date: 02/21/2012
Model: IGRF2010




**Plan: Design #1 (Three Rivers Federal #8-52-820/Wellbore #1)**

Created By: BRET WOLFORD Date: 14:48, February 21 2012

API Well Number: 43047527700000

# Axia Energy

**Uintah Co., UT**
**Sec.8-T8S-R20E**
**Three Rivers Federal #8-52-820**

**Wellbore #1**

**Plan: Design #1**



# Standard Planning Report

**21 February, 2012**

Sharewell Energy Services, LP

RECEIVED: May 29, 2012

**Sharewell Energy Services, LP**

Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Company:** | Axia Energy | **TVD Reference:** | WELL @ 4762.00usft |
| **Project:** | Uintah Co., UT | **MD Reference:** | WELL @ 4762.00usft |
| **Site:** | Sec.8-T8S-R20E | **North Reference:** | True |
| **Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Project** Uintah Co., UT

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | Utah Central Zone | | |

**Site** Sec.8-T8S-R20E

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,224,323.568 usft | **Latitude:** | 40° 8' 18.740 N |
| **From:** | Lat/Long | **Easting:** | 2,147,212.060 usft | **Longitude:** | 109° 41' 13.628 W |
| **Position Uncertainty:** | 0.00 usft | **Slot Radius:** | 13-3/16 " | **Grid Convergence:** | 1.16 ° |

**Well** Three Rivers Federal #8-52-820

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 4.00 usft | **Northing:** | 7,224,327.265 usft | **Latitude:** | 40° 8' 18.780 N |
| | **+E/-W** | -14.82 usft | **Easting:** | 2,147,197.164 usft | **Longitude:** | 109° 41' 13.819 W |
| **Position Uncertainty** | | 0.00 usft | **Wellhead Elevation:** | usft | **Ground Level:** | 4,746.00 usft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 02/21/12 | 11.09 | 65.93 | 52,312 |

**Design** Design #1

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | | **Phase:** | PLAN | **Tie On Depth:** | 0.00 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 345.29 |

**Plan Sections**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,486.20 | 0.00 | 0.00 | 1,486.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,486.11 | 20.00 | 345.29 | 2,465.93 | 167.08 | -43.86 | 2.00 | 2.00 | 0.00 | 345.29 | |
| 3,076.02 | 20.00 | 345.29 | 3,020.27 | 362.21 | -95.08 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,075.93 | 0.00 | 0.00 | 4,000.00 | 529.28 | -138.94 | 2.00 | -2.00 | 0.00 | 180.00 | TRF 8-52-820 Tgt |
| 8,797.93 | 0.00 | 0.00 | 8,722.00 | 529.28 | -138.94 | 0.00 | 0.00 | 0.00 | 0.00 | |

**Sharewell Energy Services, LP**

Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Company:** | Axia Energy | **TVD Reference:** | WELL @ 4762.00usft |
| **Project:** | Uintah Co., UT | **MD Reference:** | WELL @ 4762.00usft |
| **Site:** | Sec.8-T8S-R20E | **North Reference:** | True |
| **Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **8 5/8" Csg.** | | | | | | | | | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Start Build 2.00** | | | | | | | | | |
| 1,486.20 | 0.00 | 0.00 | 1,486.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.28 | 345.29 | 1,500.00 | 0.03 | -0.01 | 0.03 | 2.00 | 2.00 | 0.00 |
| 1,600.00 | 2.28 | 345.29 | 1,599.97 | 2.19 | -0.57 | 2.26 | 2.00 | 2.00 | 0.00 |
| 1,700.00 | 4.28 | 345.29 | 1,699.80 | 7.71 | -2.02 | 7.97 | 2.00 | 2.00 | 0.00 |
| 1,800.00 | 6.28 | 345.29 | 1,799.37 | 16.61 | -4.36 | 17.17 | 2.00 | 2.00 | 0.00 |
| 1,900.00 | 8.28 | 345.29 | 1,898.56 | 28.86 | -7.58 | 29.83 | 2.00 | 2.00 | 0.00 |
| 2,000.00 | 10.28 | 345.29 | 1,997.25 | 44.45 | -11.67 | 45.95 | 2.00 | 2.00 | 0.00 |
| 2,100.00 | 12.28 | 345.29 | 2,095.31 | 63.36 | -16.63 | 65.50 | 2.00 | 2.00 | 0.00 |
| 2,200.00 | 14.28 | 345.29 | 2,192.64 | 85.57 | -22.46 | 88.47 | 2.00 | 2.00 | 0.00 |
| 2,300.00 | 16.28 | 345.29 | 2,289.10 | 111.05 | -29.15 | 114.81 | 2.00 | 2.00 | 0.00 |
| 2,400.00 | 18.28 | 345.29 | 2,384.58 | 139.77 | -36.69 | 144.51 | 2.00 | 2.00 | 0.00 |
| **Start 589.91 hold at 2486.11 MD** | | | | | | | | | |
| 2,486.11 | 20.00 | 345.29 | 2,465.93 | 167.08 | -43.86 | 172.74 | 2.00 | 2.00 | 0.00 |
| 2,500.00 | 20.00 | 345.29 | 2,478.98 | 171.67 | -45.07 | 177.49 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 20.00 | 345.29 | 2,572.95 | 204.75 | -53.75 | 211.69 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 20.00 | 345.29 | 2,666.92 | 237.83 | -62.43 | 245.89 | 0.00 | 0.00 | 0.00 |
| **Green River** | | | | | | | | | |
| 2,779.89 | 20.00 | 345.29 | 2,742.00 | 264.25 | -69.37 | 273.21 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 20.00 | 345.29 | 2,760.89 | 270.91 | -71.12 | 280.08 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 20.00 | 345.29 | 2,854.86 | 303.98 | -79.80 | 314.28 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 20.00 | 345.29 | 2,948.84 | 337.06 | -88.48 | 348.48 | 0.00 | 0.00 | 0.00 |
| **Start Drop -2.00** | | | | | | | | | |
| 3,076.02 | 20.00 | 345.29 | 3,020.27 | 362.21 | -95.08 | 374.48 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 19.52 | 345.29 | 3,042.84 | 370.05 | -97.14 | 382.59 | 2.00 | -2.00 | 0.00 |
| 3,200.00 | 17.52 | 345.29 | 3,137.66 | 400.77 | -105.21 | 414.35 | 2.00 | -2.00 | 0.00 |
| 3,300.00 | 15.52 | 345.29 | 3,233.52 | 428.27 | -112.43 | 442.78 | 2.00 | -2.00 | 0.00 |
| 3,400.00 | 13.52 | 345.29 | 3,330.33 | 452.51 | -118.79 | 467.85 | 2.00 | -2.00 | 0.00 |
| 3,500.00 | 11.52 | 345.29 | 3,427.94 | 473.48 | -124.29 | 489.52 | 2.00 | -2.00 | 0.00 |
| 3,600.00 | 9.52 | 345.29 | 3,526.26 | 491.13 | -128.93 | 507.77 | 2.00 | -2.00 | 0.00 |
| 3,700.00 | 7.52 | 345.29 | 3,625.15 | 505.46 | -132.69 | 522.59 | 2.00 | -2.00 | 0.00 |
| 3,800.00 | 5.52 | 345.29 | 3,724.50 | 516.44 | -135.57 | 533.94 | 2.00 | -2.00 | 0.00 |
| 3,900.00 | 3.52 | 345.29 | 3,824.18 | 524.06 | -137.57 | 541.82 | 2.00 | -2.00 | 0.00 |
| 4,000.00 | 1.52 | 345.29 | 3,924.08 | 528.31 | -138.69 | 546.21 | 2.00 | -2.00 | 0.00 |
| **Start 4722.00 hold at 4075.93 MD - TRF 8-52-820 Tgt** | | | | | | | | | |
| 4,075.93 | 0.00 | 0.00 | 4,000.00 | 529.28 | -138.94 | 547.22 | 2.00 | -2.00 | 0.00 |
| 4,100.00 | 0.00 | 0.00 | 4,024.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |





RECEIVED: May 29, 2012

**Sharewell Energy Services, LP**

Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Company:** | Axia Energy | **TVD Reference:** | WELL @ 4762.00usft |
| **Project:** | Uintah Co., UT | **MD Reference:** | WELL @ 4762.00usft |
| **Site:** | Sec.8-T8S-R20E | **North Reference:** | True |
| **Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 4,200.00 | 0.00 | 0.00 | 4,124.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 0.00 | 0.00 | 4,224.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 0.00 | 0.00 | 4,324.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 0.00 | 0.00 | 4,424.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 0.00 | 0.00 | 4,524.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 0.00 | 0.00 | 4,624.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.00 | 4,724.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.00 | 4,824.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 4,924.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.00 | 5,024.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 5,124.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.00 | 0.00 | 5,224.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 0.00 | 0.00 | 5,324.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 0.00 | 0.00 | 5,424.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 0.00 | 0.00 | 5,524.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.00 | 5,624.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.00 | 5,724.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,824.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 5,924.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 6,024.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 6,124.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,224.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,324.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,424.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| **Uteland Butte** | | | | | | | | | |
| 6,597.93 | 0.00 | 0.00 | 6,522.00 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,524.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,624.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| **Wasatch** | | | | | | | | | |
| 6,744.93 | 0.00 | 0.00 | 6,669.00 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,724.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,824.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,924.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.00 | 0.00 | 7,024.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 0.00 | 0.00 | 7,124.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 0.00 | 0.00 | 7,224.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 0.00 | 0.00 | 7,324.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 0.00 | 0.00 | 7,424.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 0.00 | 0.00 | 7,524.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 0.00 | 0.00 | 7,624.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 0.00 | 0.00 | 7,724.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 0.00 | 0.00 | 7,824.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 0.00 | 0.00 | 7,924.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 0.00 | 0.00 | 8,024.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 0.00 | 0.00 | 8,124.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 0.00 | 0.00 | 8,224.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 0.00 | 0.00 | 8,324.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 0.00 | 0.00 | 8,424.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 0.00 | 0.00 | 8,524.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 0.00 | 0.00 | 8,624.07 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |
| **TD at 8797.93** | | | | | | | | | |
| 8,797.93 | 0.00 | 0.00 | 8,722.00 | 529.28 | -138.94 | 547.22 | 0.00 | 0.00 | 0.00 |

**Sharewell Energy Services, LP**
Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Company:** | Axia Energy | **TVD Reference:** | WELL @ 4762.00usft |
| **Project:** | Uintah Co., UT | **MD Reference:** | WELL @ 4762.00usft |
| **Site:** | Sec.8-T8S-R20E | **North Reference:** | True |
| **Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Design Targets**

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| TRF 8-52-820 Tgt<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 4,000.00 | 529.28 | -138.94 | 7,224,853.624 | 2,147,047.522 | 40° 8' 24.011 N | 109° 41' 15.608 W |

**Casing Points**

| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |
|---|---|---|---|---|
| 900.00 | 900.00 | 8 5/8" Csg. | 8-5/8 | 12-1/4 |

**Formations**

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 2,779.89 | 2,742.00 | Green River | | 0.00 | |
| 6,597.93 | 6,522.00 | Uteland Butte | | 0.00 | |
| 6,744.93 | 6,669.00 | Wasatch | | 0.00 | |

**Plan Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | Local Coordinates +E/-W (usft) | Comment |
|---|---|---|---|---|
| 1,486.20 | 1,486.20 | 0.00 | 0.00 | Start Build 2.00 |
| 2,486.11 | 2,465.93 | 167.08 | -43.86 | Start 589.91 hold at 2486.11 MD |
| 3,076.02 | 3,020.27 | 362.21 | -95.08 | Start Drop -2.00 |
| 4,075.93 | 4,000.00 | 529.28 | -138.94 | Start 4722.00 hold at 4075.93 MD |
| 8,797.93 | 8,722.00 | 529.28 | -138.94 | TD at 8797.93 |

API Well Number: 43047527700000

# Axia Energy

**Uintah Co., UT**
**Sec.8-T8S-R20E**
**Three Rivers Federal #8-52-820**

**Wellbore #1**
**Design #1**



# Anticollision Report

**21 February, 2012**

Sharewell
Energy Services, LP

RECEIVED: May 29, 2012

# Sharewell Energy Services, LP

## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Axia Energy | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Project:** | Uintah Co., UT | **TVD Reference:** | WELL @ 4762.00usft |
| **Reference Site:** | Sec.8-T8S-R20E | **MD Reference:** | WELL @ 4762.00usft |
| **Site Error:** | 0.00 usft | **North Reference:** | True |
| **Reference Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | EDM 5000.1 Single User Db |
| **Reference Design:** | Design #1 | **Offset TVD Reference:** | Reference Datum |

**Reference** Design #1

| | | | |
|---|---|---|---|
| **Filter type:** | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| **Interpolation Method:** | Stations | **Error Model:** | ISCWSA |
| **Depth Range:** | Unlimited | **Scan Method:** | Closest Approach 3D |
| **Results Limited by:** | Maximum center-center distance of 9,999.98 usft | **Error Surface:** | Elliptical Conic |
| **Warning Levels Evaluated at:** | 2.00 **Sigma** | **Casing Method:** | Not applied |

**Survey Tool Program** **Date** 02/21/12

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.00 | 8,797.93 | Design #1 (Wellbore #1) | MWD | MWD - Standard |



**Summary**

| Site Name / Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| Sec.8-T8S-R20E | | | | | | |
| Three Rivers Federal #8-53-820 - Wellbore #1 - Design # | 1,486.20 | 1,486.20 | 15.35 | 8.93 | 2.391 | CC |
| Three Rivers Federal #8-53-820 - Wellbore #1 - Design # | 1,500.00 | 1,500.00 | 15.36 | 8.88 | 2.370 | ES, SF |

**Offset Design** Sec.8-T8S-R20E - Three Rivers Federal #8-53-820 - Wellbore #1 - Design #1

**Survey Program:** 0-MWD

**Offset Site Error:** 0.00 usft

**Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 105.12 | -4.00 | 14.82 | 15.35 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.09 | 0.09 | 105.12 | -4.00 | 14.82 | 15.35 | 15.16 | 0.19 | 81.293 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.32 | 0.32 | 105.12 | -4.00 | 14.82 | 15.35 | 14.71 | 0.64 | 24.044 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.54 | 0.54 | 105.12 | -4.00 | 14.82 | 15.35 | 14.26 | 1.09 | 14.109 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 0.77 | 0.77 | 105.12 | -4.00 | 14.82 | 15.35 | 13.81 | 1.54 | 9.983 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 0.99 | 0.99 | 105.12 | -4.00 | 14.82 | 15.35 | 13.36 | 1.99 | 7.725 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 1.22 | 1.22 | 105.12 | -4.00 | 14.82 | 15.35 | 12.91 | 2.44 | 6.299 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 1.44 | 1.44 | 105.12 | -4.00 | 14.82 | 15.35 | 12.46 | 2.89 | 5.318 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 1.67 | 1.67 | 105.12 | -4.00 | 14.82 | 15.35 | 12.01 | 3.34 | 4.601 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 1.89 | 1.89 | 105.12 | -4.00 | 14.82 | 15.35 | 11.56 | 3.79 | 4.055 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 2.12 | 2.12 | 105.12 | -4.00 | 14.82 | 15.35 | 11.11 | 4.23 | 3.625 | |
| 1,100.00 | 1,100.00 | 1,100.00 | 1,100.00 | 2.34 | 2.34 | 105.12 | -4.00 | 14.82 | 15.35 | 10.66 | 4.68 | 3.277 | |
| 1,200.00 | 1,200.00 | 1,200.00 | 1,200.00 | 2.57 | 2.57 | 105.12 | -4.00 | 14.82 | 15.35 | 10.21 | 5.13 | 2.990 | |
| 1,300.00 | 1,300.00 | 1,300.00 | 1,300.00 | 2.79 | 2.79 | 105.12 | -4.00 | 14.82 | 15.35 | 9.77 | 5.58 | 2.749 | |
| 1,400.00 | 1,400.00 | 1,400.00 | 1,400.00 | 3.02 | 3.02 | 105.12 | -4.00 | 14.82 | 15.35 | 9.32 | 6.03 | 2.544 | |
| 1,486.20 | 1,486.20 | 1,486.20 | 1,486.20 | 3.21 | 3.21 | 105.12 | -4.00 | 14.82 | 15.35 | 8.93 | 6.42 | 2.391 | CC |
| 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 3.24 | 3.24 | 105.22 | -4.00 | 14.82 | 15.36 | 8.88 | 6.48 | 2.370 | ES, SF |
| 1,600.00 | 1,599.97 | 1,599.86 | 1,599.84 | 3.47 | 3.44 | 117.61 | -5.63 | 14.38 | 16.87 | 9.97 | 6.90 | 2.446 | |
| 1,700.00 | 1,699.80 | 1,699.01 | 1,698.85 | 3.69 | 3.61 | 140.50 | -10.58 | 13.05 | 23.72 | 16.43 | 7.29 | 3.254 | |
| 1,800.00 | 1,799.37 | 1,796.78 | 1,796.26 | 3.92 | 3.79 | 156.66 | -18.69 | 10.87 | 38.56 | 30.88 | 7.68 | 5.021 | |
| 1,900.00 | 1,898.56 | 1,892.56 | 1,891.34 | 4.16 | 3.98 | 165.21 | -29.74 | 7.90 | 61.03 | 52.96 | 8.07 | 7.562 | |
| 2,000.00 | 1,997.25 | 1,985.77 | 1,983.47 | 4.42 | 4.19 | 169.76 | -43.44 | 4.22 | 90.36 | 81.91 | 8.46 | 10.684 | |
| 2,100.00 | 2,095.31 | 2,075.93 | 2,072.09 | 4.71 | 4.42 | 172.32 | -59.43 | -0.08 | 126.06 | 117.22 | 8.84 | 14.261 | |
| 2,200.00 | 2,192.64 | 2,162.60 | 2,156.75 | 5.03 | 4.67 | 173.85 | -77.34 | -4.90 | 167.74 | 158.52 | 9.21 | 18.204 | |
| 2,300.00 | 2,289.10 | 2,245.43 | 2,237.09 | 5.40 | 4.94 | 174.77 | -96.76 | -10.12 | 215.06 | 205.48 | 9.58 | 22.443 | |

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



RECEIVED: May 29, 2012

# Sharewell Energy Services, LP

## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Axia Energy | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Project:** | Uintah Co., UT | **TVD Reference:** | WELL @ 4762.00usft |
| **Reference Site:** | Sec.8-T8S-R20E | **MD Reference:** | WELL @ 4762.00usft |
| **Site Error:** | 0.00 usft | **North Reference:** | True |
| **Reference Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | EDM 5000.1 Single User Db |
| **Reference Design:** | Design #1 | **Offset TVD Reference:** | Reference Datum |

**Offset Design** Sec.8-T8S-R20E - Three Rivers Federal #8-53-820 - Wellbore #1 - Design #1

**Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,400.00 | 2,384.58 | 2,324.15 | 2,312.89 | 5.83 | 5.23 | 175.32 | -117.29 | -15.64 | 267.70 | 257.76 | 9.94 | 26.922 | |
| 2,486.11 | 2,465.93 | 2,388.48 | 2,374.37 | 6.24 | 5.50 | 175.60 | -135.55 | -20.55 | 317.03 | 306.78 | 10.25 | 30.929 | |
| 2,500.00 | 2,478.98 | 2,400.00 | 2,385.34 | 6.31 | 5.54 | 175.66 | -138.96 | -21.47 | 325.30 | 314.98 | 10.31 | 31.538 | |
| 2,600.00 | 2,572.95 | 2,469.73 | 2,451.40 | 6.83 | 5.87 | 175.85 | -160.51 | -27.26 | 385.87 | 375.11 | 10.76 | 35.858 | |
| 2,700.00 | 2,666.92 | 2,543.82 | 2,521.09 | 7.38 | 6.24 | 176.12 | -184.82 | -33.80 | 448.02 | 436.80 | 11.22 | 39.941 | |
| 2,800.00 | 2,760.89 | 2,621.97 | 2,594.52 | 7.95 | 6.66 | 176.39 | -210.63 | -40.73 | 510.38 | 498.68 | 11.69 | 43.651 | |
| 2,900.00 | 2,854.86 | 2,700.12 | 2,667.96 | 8.54 | 7.09 | 176.60 | -236.44 | -47.67 | 572.74 | 560.56 | 12.17 | 47.049 | |
| 3,000.00 | 2,948.84 | 2,778.27 | 2,741.40 | 9.14 | 7.53 | 176.77 | -262.26 | -54.61 | 635.10 | 622.44 | 12.67 | 50.142 | |
| 3,076.02 | 3,020.27 | 2,837.68 | 2,797.23 | 9.60 | 7.88 | 176.87 | -281.88 | -59.89 | 682.52 | 669.47 | 13.05 | 52.316 | |
| 3,100.00 | 3,042.84 | 2,856.48 | 2,814.90 | 9.73 | 7.99 | 176.91 | -288.09 | -61.56 | 697.40 | 684.21 | 13.18 | 52.894 | |
| 3,200.00 | 3,137.66 | 2,936.15 | 2,889.76 | 10.21 | 8.46 | 177.07 | -314.40 | -68.63 | 757.79 | 744.06 | 13.74 | 55.169 | |
| 3,300.00 | 3,233.52 | 3,017.80 | 2,966.48 | 10.66 | 8.95 | 177.28 | -341.36 | -75.88 | 815.46 | 801.17 | 14.29 | 57.070 | |
| 3,400.00 | 3,330.33 | 3,112.13 | 3,055.20 | 11.08 | 9.50 | 177.60 | -372.30 | -84.20 | 870.17 | 855.31 | 14.86 | 58.543 | |
| 3,500.00 | 3,427.94 | 3,236.37 | 3,173.35 | 11.46 | 10.07 | 178.05 | -409.40 | -94.17 | 919.35 | 903.86 | 15.49 | 59.356 | |
| 3,600.00 | 3,526.26 | 3,368.60 | 3,300.79 | 11.81 | 10.64 | 178.43 | -443.41 | -103.32 | 961.70 | 945.59 | 16.11 | 59.679 | |
| 3,700.00 | 3,625.15 | 3,508.03 | 3,436.78 | 12.11 | 11.19 | 178.75 | -473.09 | -111.29 | 996.74 | 980.01 | 16.73 | 59.562 | |
| 3,800.00 | 3,724.50 | 3,653.59 | 3,580.16 | 12.38 | 11.68 | 178.99 | -497.21 | -117.78 | 1,024.03 | 1,006.70 | 17.33 | 59.077 | |
| 3,900.00 | 3,824.18 | 3,803.90 | 3,729.36 | 12.60 | 12.11 | 179.17 | -514.71 | -122.48 | 1,043.19 | 1,025.29 | 17.90 | 58.271 | |
| 4,000.00 | 3,924.08 | 3,957.38 | 3,882.47 | 12.78 | 12.45 | 179.27 | -524.75 | -125.18 | 1,053.97 | 1,035.54 | 18.42 | 57.204 | |
| 4,075.93 | 4,000.00 | 4,074.95 | 4,000.00 | 12.89 | 12.64 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,037.66 | 18.78 | 56.243 | |
| 4,100.00 | 4,024.07 | 4,099.02 | 4,024.07 | 12.92 | 12.68 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,037.57 | 18.87 | 55.983 | |
| 4,200.00 | 4,124.07 | 4,199.02 | 4,124.07 | 13.06 | 12.82 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,037.19 | 19.26 | 54.865 | |
| 4,300.00 | 4,224.07 | 4,299.02 | 4,224.07 | 13.21 | 12.96 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,036.80 | 19.64 | 53.782 | |
| 4,400.00 | 4,324.07 | 4,399.02 | 4,324.07 | 13.36 | 13.11 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,036.41 | 20.03 | 52.735 | |
| 4,500.00 | 4,424.07 | 4,499.02 | 4,424.07 | 13.51 | 13.25 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,036.02 | 20.43 | 51.722 | |
| 4,600.00 | 4,524.07 | 4,599.02 | 4,524.07 | 13.66 | 13.40 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,035.62 | 20.82 | 50.741 | |
| 4,700.00 | 4,624.07 | 4,699.02 | 4,624.07 | 13.82 | 13.56 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,035.23 | 21.22 | 49.791 | |
| 4,800.00 | 4,724.07 | 4,799.02 | 4,724.07 | 13.97 | 13.71 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,034.83 | 21.62 | 48.872 | |
| 4,900.00 | 4,824.07 | 4,899.02 | 4,824.07 | 14.13 | 13.87 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,034.43 | 22.02 | 47.982 | |
| 5,000.00 | 4,924.07 | 4,999.02 | 4,924.07 | 14.29 | 14.02 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,034.02 | 22.42 | 47.119 | |
| 5,100.00 | 5,024.07 | 5,099.02 | 5,024.07 | 14.45 | 14.18 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,033.62 | 22.83 | 46.284 | |
| 5,200.00 | 5,124.07 | 5,199.02 | 5,124.07 | 14.62 | 14.35 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,033.21 | 23.23 | 45.475 | |
| 5,300.00 | 5,224.07 | 5,299.02 | 5,224.07 | 14.78 | 14.51 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,032.81 | 23.64 | 44.690 | |
| 5,400.00 | 5,324.07 | 5,399.02 | 5,324.07 | 14.95 | 14.67 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,032.40 | 24.05 | 43.929 | |
| 5,500.00 | 5,424.07 | 5,499.02 | 5,424.07 | 15.12 | 14.84 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,031.99 | 24.46 | 43.192 | |
| 5,600.00 | 5,524.07 | 5,599.02 | 5,524.07 | 15.29 | 15.01 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,031.57 | 24.87 | 42.476 | |
| 5,700.00 | 5,624.07 | 5,699.02 | 5,624.07 | 15.46 | 15.18 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,031.16 | 25.28 | 41.782 | |
| 5,800.00 | 5,724.07 | 5,799.02 | 5,724.07 | 15.63 | 15.35 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,030.75 | 25.70 | 41.108 | |
| 5,900.00 | 5,824.07 | 5,899.02 | 5,824.07 | 15.80 | 15.52 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,030.33 | 26.12 | 40.453 | |
| 6,000.00 | 5,924.07 | 5,999.02 | 5,924.07 | 15.98 | 15.69 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,029.91 | 26.53 | 39.818 | |
| 6,100.00 | 6,024.07 | 6,099.02 | 6,024.07 | 16.16 | 15.87 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,029.49 | 26.95 | 39.200 | |
| 6,200.00 | 6,124.07 | 6,199.02 | 6,124.07 | 16.33 | 16.04 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,029.08 | 27.37 | 38.600 | |
| 6,300.00 | 6,224.07 | 6,299.02 | 6,224.07 | 16.51 | 16.22 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,028.66 | 27.79 | 38.017 | |
| 6,400.00 | 6,324.07 | 6,399.02 | 6,324.07 | 16.69 | 16.40 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,028.24 | 28.21 | 37.450 | |
| 6,500.00 | 6,424.07 | 6,499.02 | 6,424.07 | 16.87 | 16.58 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,027.81 | 28.63 | 36.899 | |
| 6,600.00 | 6,524.07 | 6,599.02 | 6,524.07 | 17.05 | 16.76 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,027.39 | 29.05 | 36.362 | |
| 6,700.00 | 6,624.07 | 6,699.02 | 6,624.07 | 17.24 | 16.94 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,026.97 | 29.48 | 35.840 | |
| 6,800.00 | 6,724.07 | 6,799.02 | 6,724.07 | 17.42 | 17.12 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,026.54 | 29.90 | 35.332 | |
| 6,900.00 | 6,824.07 | 6,899.02 | 6,824.07 | 17.61 | 17.31 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,026.12 | 30.33 | 34.837 | |
| 7,000.00 | 6,924.07 | 6,999.02 | 6,924.07 | 17.79 | 17.49 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,025.69 | 30.75 | 34.355 | |
| 7,100.00 | 7,024.07 | 7,099.02 | 7,024.07 | 17.98 | 17.68 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,025.27 | 31.18 | 33.885 | |
| 7,200.00 | 7,124.07 | 7,199.02 | 7,124.07 | 18.17 | 17.86 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,024.84 | 31.60 | 33.428 | |



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

# Sharewell Energy Services, LP

## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Axia Energy | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Project:** | Uintah Co., UT | **TVD Reference:** | WELL @ 4762.00usft |
| **Reference Site:** | Sec.8-T8S-R20E | **MD Reference:** | WELL @ 4762.00usft |
| **Site Error:** | 0.00 usft | **North Reference:** | True |
| **Reference Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | EDM 5000.1 Single User Db |
| **Reference Design:** | Design #1 | **Offset TVD Reference:** | Reference Datum |

**Offset Design** Sec.8-T8S-R20E - Three Rivers Federal #8-53-820 - Wellbore #1 - Design #1

**Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7,300.00 | 7,224.07 | 7,299.02 | 7,224.07 | 18.35 | 18.05 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,024.41 | 32.03 | 32.981 | |
| 7,400.00 | 7,324.07 | 7,399.02 | 7,324.07 | 18.54 | 18.24 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,023.99 | 32.46 | 32.547 | |
| 7,500.00 | 7,424.07 | 7,499.02 | 7,424.07 | 18.73 | 18.43 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,023.56 | 32.89 | 32.122 | |
| 7,600.00 | 7,524.07 | 7,599.02 | 7,524.07 | 18.92 | 18.62 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,023.13 | 33.32 | 31.709 | |
| 7,700.00 | 7,624.07 | 7,699.02 | 7,624.07 | 19.12 | 18.81 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,022.70 | 33.75 | 31.305 | |
| 7,800.00 | 7,724.07 | 7,799.02 | 7,724.07 | 19.31 | 19.00 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,022.27 | 34.18 | 30.911 | |
| 7,900.00 | 7,824.07 | 7,899.02 | 7,824.07 | 19.50 | 19.19 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,021.84 | 34.61 | 30.526 | |
| 8,000.00 | 7,924.07 | 7,999.02 | 7,924.07 | 19.69 | 19.38 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,021.41 | 35.04 | 30.151 | |
| 8,100.00 | 8,024.07 | 8,099.02 | 8,024.07 | 19.89 | 19.58 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,020.97 | 35.47 | 29.784 | |
| 8,200.00 | 8,124.07 | 8,199.02 | 8,124.07 | 20.08 | 19.77 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,020.54 | 35.90 | 29.425 | |
| 8,300.00 | 8,224.07 | 8,299.02 | 8,224.07 | 20.28 | 19.97 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,020.11 | 36.34 | 29.075 | |
| 8,400.00 | 8,324.07 | 8,399.02 | 8,324.07 | 20.47 | 20.16 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,019.68 | 36.77 | 28.733 | |
| 8,500.00 | 8,424.07 | 8,499.02 | 8,424.07 | 20.67 | 20.36 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,019.24 | 37.20 | 28.398 | |
| 8,600.00 | 8,524.07 | 8,599.02 | 8,524.07 | 20.87 | 20.55 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,018.81 | 37.63 | 28.071 | |
| 8,700.00 | 8,624.07 | 8,699.02 | 8,624.07 | 21.07 | 20.75 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,018.38 | 38.07 | 27.751 | |
| 8,731.22 | 8,655.29 | 8,730.24 | 8,655.29 | 21.13 | 20.81 | 179.29 | -527.08 | -125.81 | 1,056.44 | 1,018.24 | 38.20 | 27.652 | |
| 8,797.93 | 8,722.00 | 8,746.95 | 8,672.00 | 21.26 | 20.85 | 179.29 | -527.08 | -125.81 | 1,057.63 | 1,019.24 | 38.39 | 27.552 | |

**Sharewell Energy Services, LP**

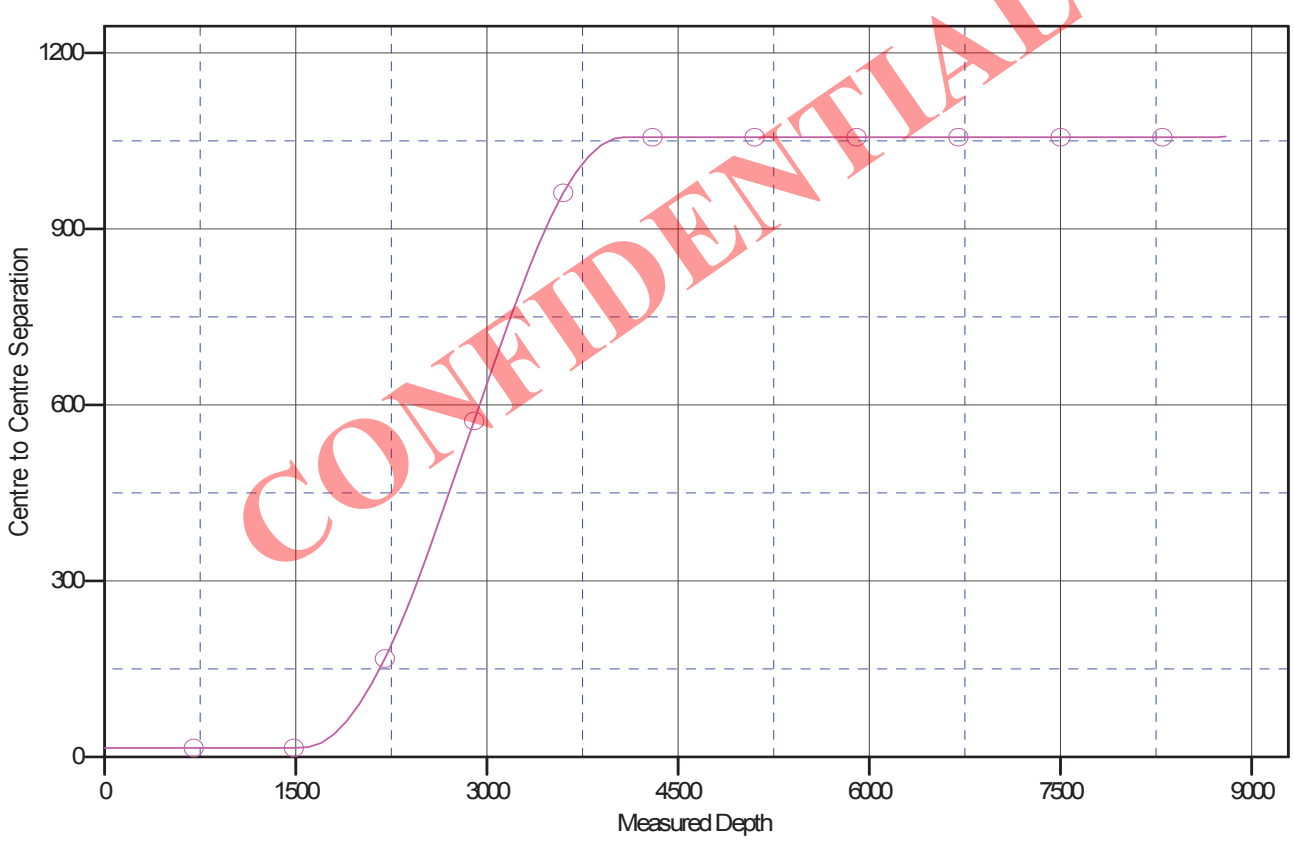
Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Axia Energy | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Project:** | Uintah Co., UT | **TVD Reference:** | WELL @ 4762.00usft |
| **Reference Site:** | Sec.8-T8S-R20E | **MD Reference:** | WELL @ 4762.00usft |
| **Site Error:** | 0.00 usft | **North Reference:** | True |
| **Reference Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | EDM 5000.1 Single User Db |
| **Reference Design:** | Design #1 | **Offset TVD Reference:** | Reference Datum |

Reference Depths are relative to WELL @ 4762.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: Three Rivers Federal #8-52-820
Coordinate System is US State Plane 1983, Utah Central Zone
Grid Convergence at Surface is: 1.16°

## Ladder Plot






LEGEND

rs Federal #8-53-820, Wellbore #1, Design #1 V0



RECEIVED: May 29, 2012

**Sharewell Energy Services, LP**

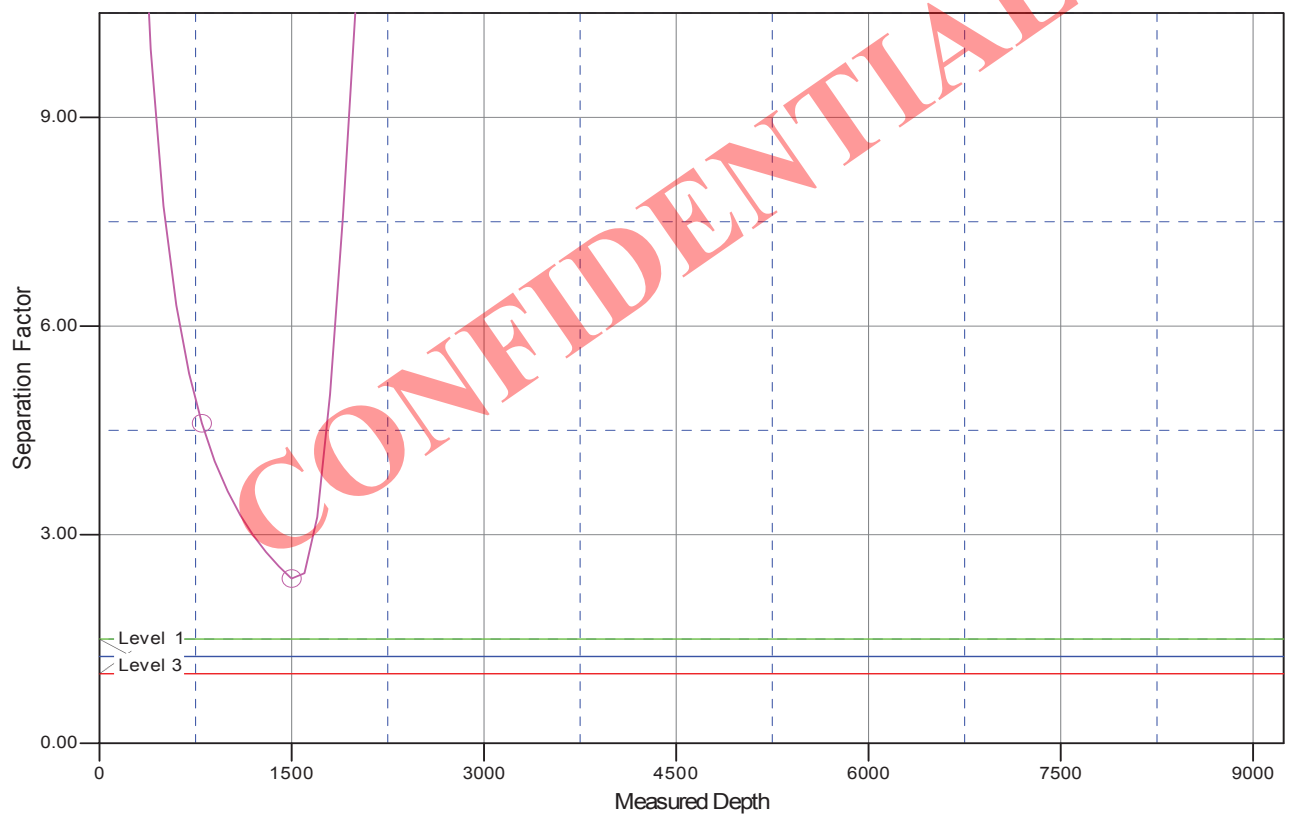
Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Axia Energy | **Local Co-ordinate Reference:** | Well Three Rivers Federal #8-52-820 |
| **Project:** | Uintah Co., UT | **TVD Reference:** | WELL @ 4762.00usft |
| **Reference Site:** | Sec.8-T8S-R20E | **MD Reference:** | WELL @ 4762.00usft |
| **Site Error:** | 0.00 usft | **North Reference:** | True |
| **Reference Well:** | Three Rivers Federal #8-52-820 | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | EDM 5000.1 Single User Db |
| **Reference Design:** | Design #1 | **Offset TVD Reference:** | Reference Datum |

Reference Depths are relative to WELL @ 4762.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: Three Rivers Federal #8-52-820
Coordinate System is US State Plane 1983, Utah Central Zone
Grid Convergence at Surface is: 1.16°

## Separation Factor Plot






LEGEND

rs Federal #8-53-820, Wellbore #1, Design #1 V0



RECEIVED: May 29, 2012

# BOP Equipment

3000psi WP

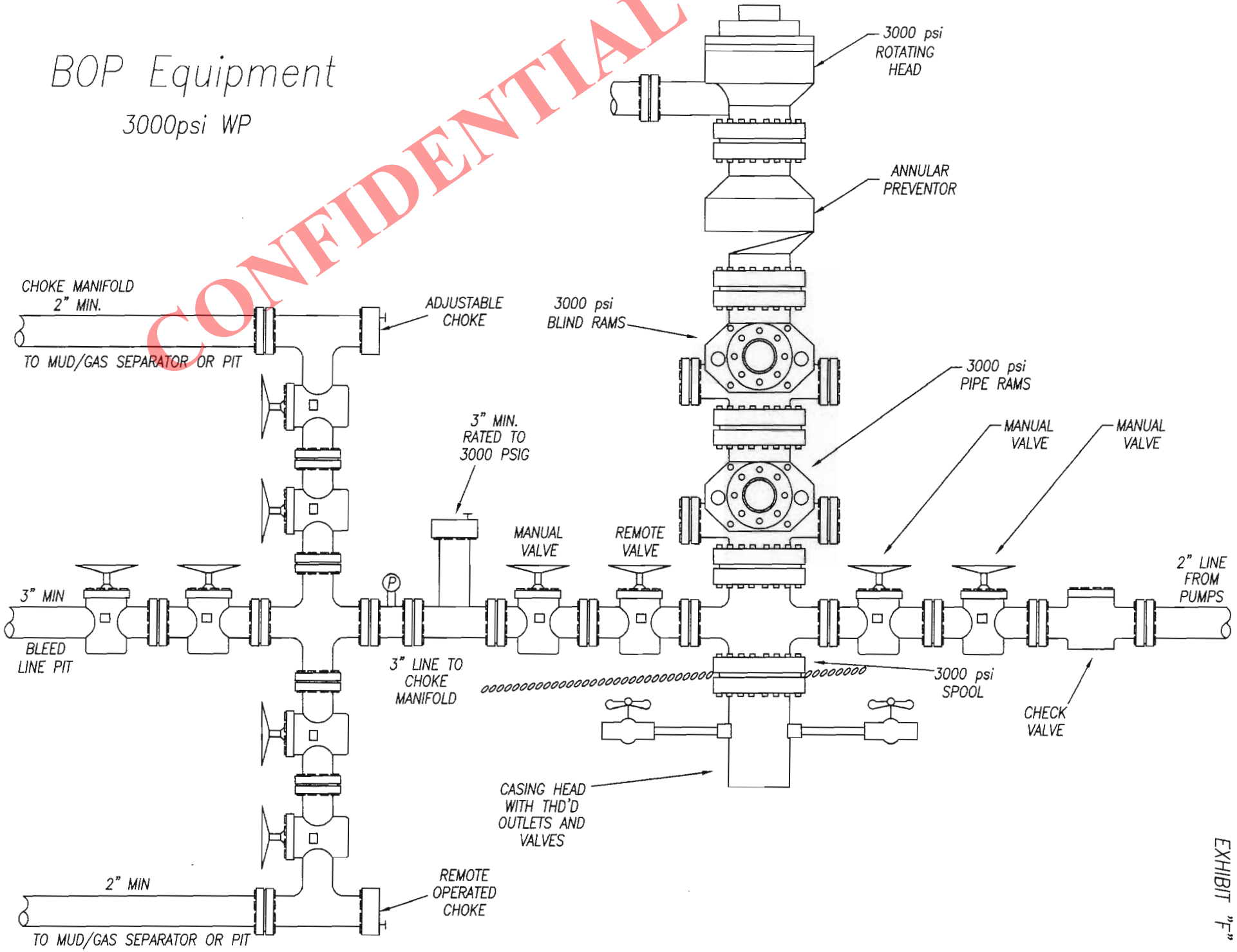



EXHIBIT "F"

RECEIVED: May 29, 2012

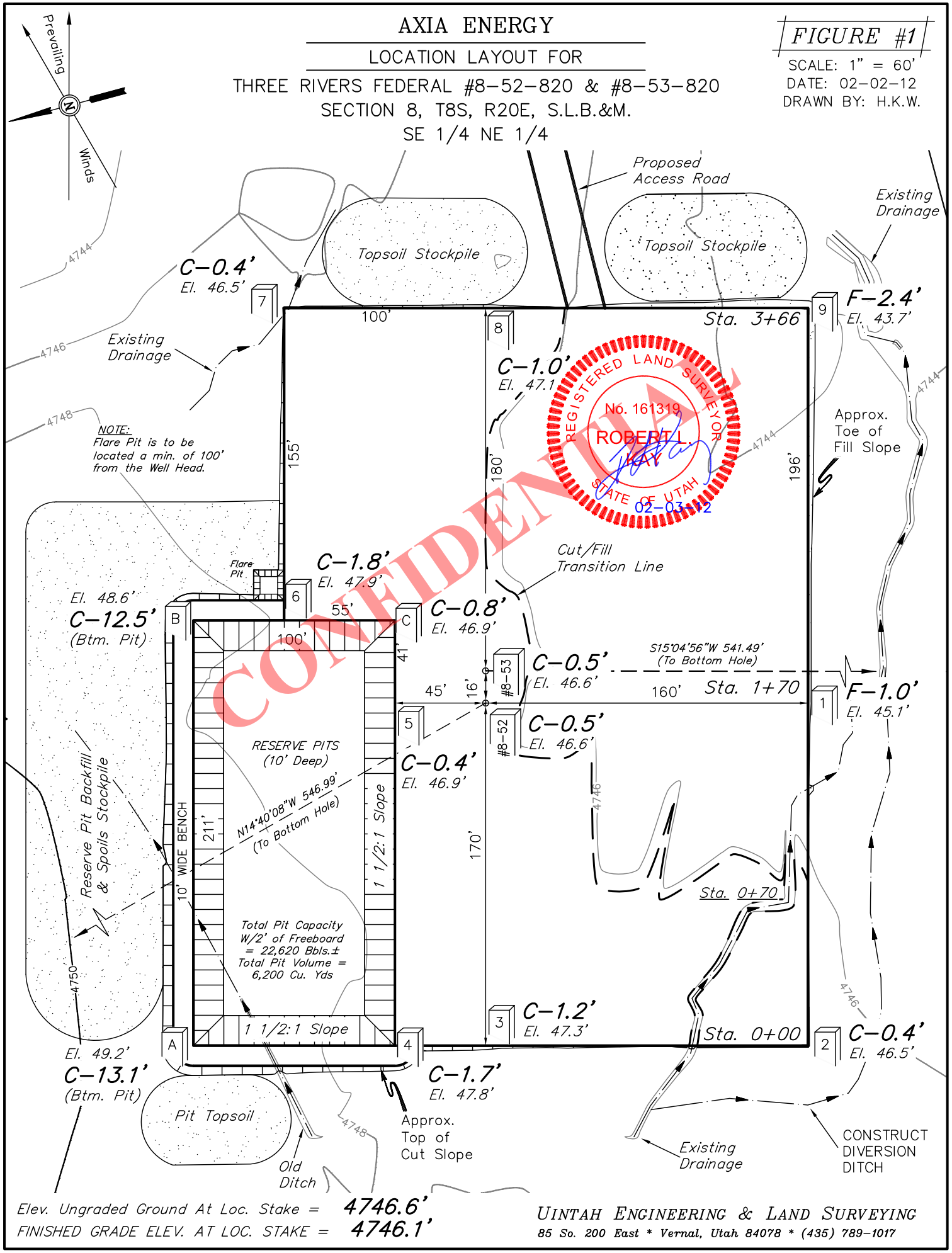
API Well Number: 43047527700000

# AXIA ENERGY

## LOCATION LAYOUT FOR

THREE RIVERS FEDERAL #8-52-820 & #8-53-820
SECTION 8, T8S, R20E, S.L.B.&M.
SE 1/4 NE 1/4

FIGURE #1
SCALE: 1" = 60'
DATE: 02-02-12
DRAWN BY: H.K.W.






Elev. Ungraded Ground At Loc. Stake = 4746.6'
FINISHED GRADE ELEV. AT LOC. STAKE = 4746.1'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: May 29, 2012

# AXIA ENERGY

## TYPICAL CROSS SECTIONS FOR

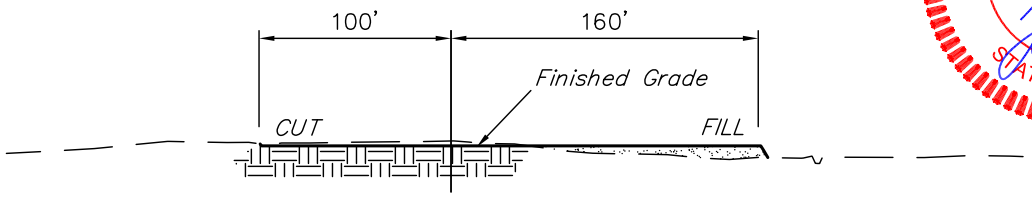
THREE RIVERS FEDERAL #8-52-820 & #8-53-820
SECTION 8, T8S, R20E, S.L.B.&M.
SE 1/4 NE 1/4

*FIGURE #2*

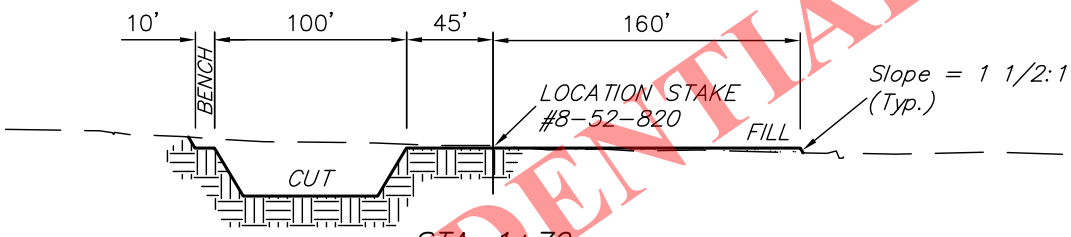
1" = 40'
X-Section Scale
1" = 100'

DATE: 02-02-12
DRAWN BY: H.K.W.
REVISED: 04-26-12

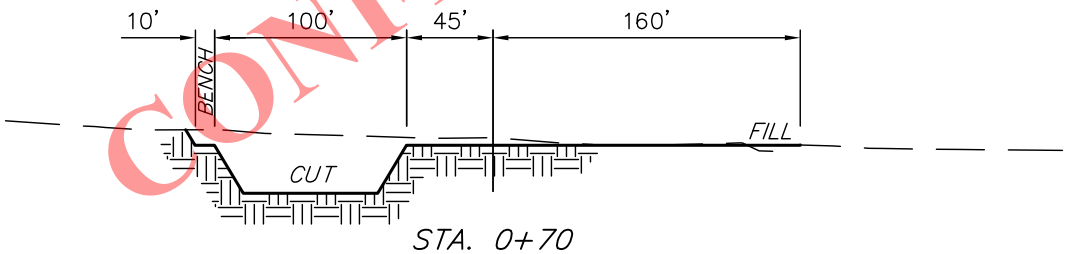
REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
04-26-12



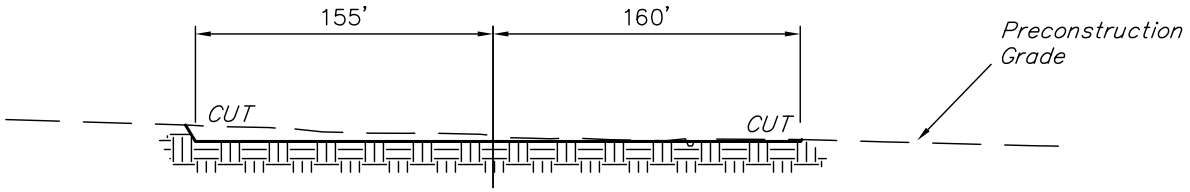

STA. 3+66




STA. 1+70




STA. 0+70




STA. 0+00



NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

*APPROXIMATE ACREAGES*

*WELL SITE DISTURBANCE = ± 3.330 ACRES*
*ACCESS ROAD DISTURBANCE = ± 0.678 ACRES*
*PIPELINE DISTURBANCE = ± 0.661 ACRES*
*TOTAL = ± 4.618 ACRES*

* *NOTE:*
*FILL QUANTITY INCLUDES 5% FOR COMPACTION*

## APPROXIMATE YARDAGES

| | | |
|---|---|---|
| (6") Topsoil Stripping | = | *2,100* Cu. Yds. |
| Remaining Location | = | *8,100* Cu. Yds. |
| TOTAL CUT | = | *10,200* CU.YDS. |
| FILL | = | *2,330* CU.YDS. |

| | | |
|---|---|---|
| EXCESS MATERIAL | = | *7,870* Cu. Yds. |
| Topsoil & Pit Backfill (1/2 Pit Vol.) | = | *5,200* Cu. Yds. |
| EXCESS UNBALANCE (After Interim Rehabilitation) | = | *2,670* Cu. Yds. |

*UINTAH ENGINEERING & LAND SURVEYING*
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: May 29, 2012

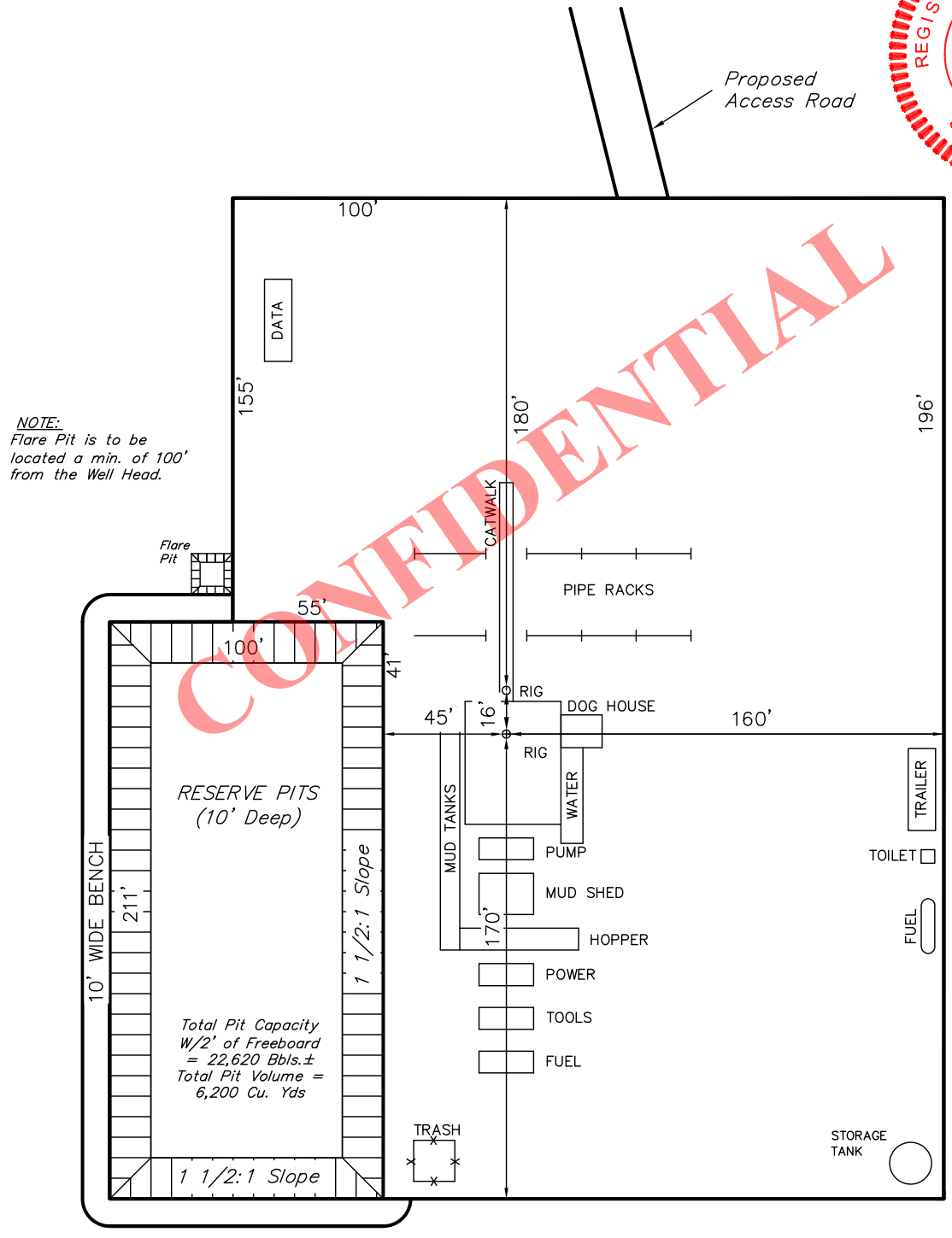
# AXIA ENERGY

## TYPICAL RIG LAYOUT FOR

THREE RIVERS FEDERAL #8-52-820 & #8-53-820
SECTION 8, T8S, R20E, S.L.B.&M.
SE 1/4 NE 1/4

FIGURE #3
SCALE: 1" = 60'
DATE: 02-02-12
DRAWN BY: H.K.W.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
02-03-12






UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: May 29, 2012

API Well Number: 43047527700000

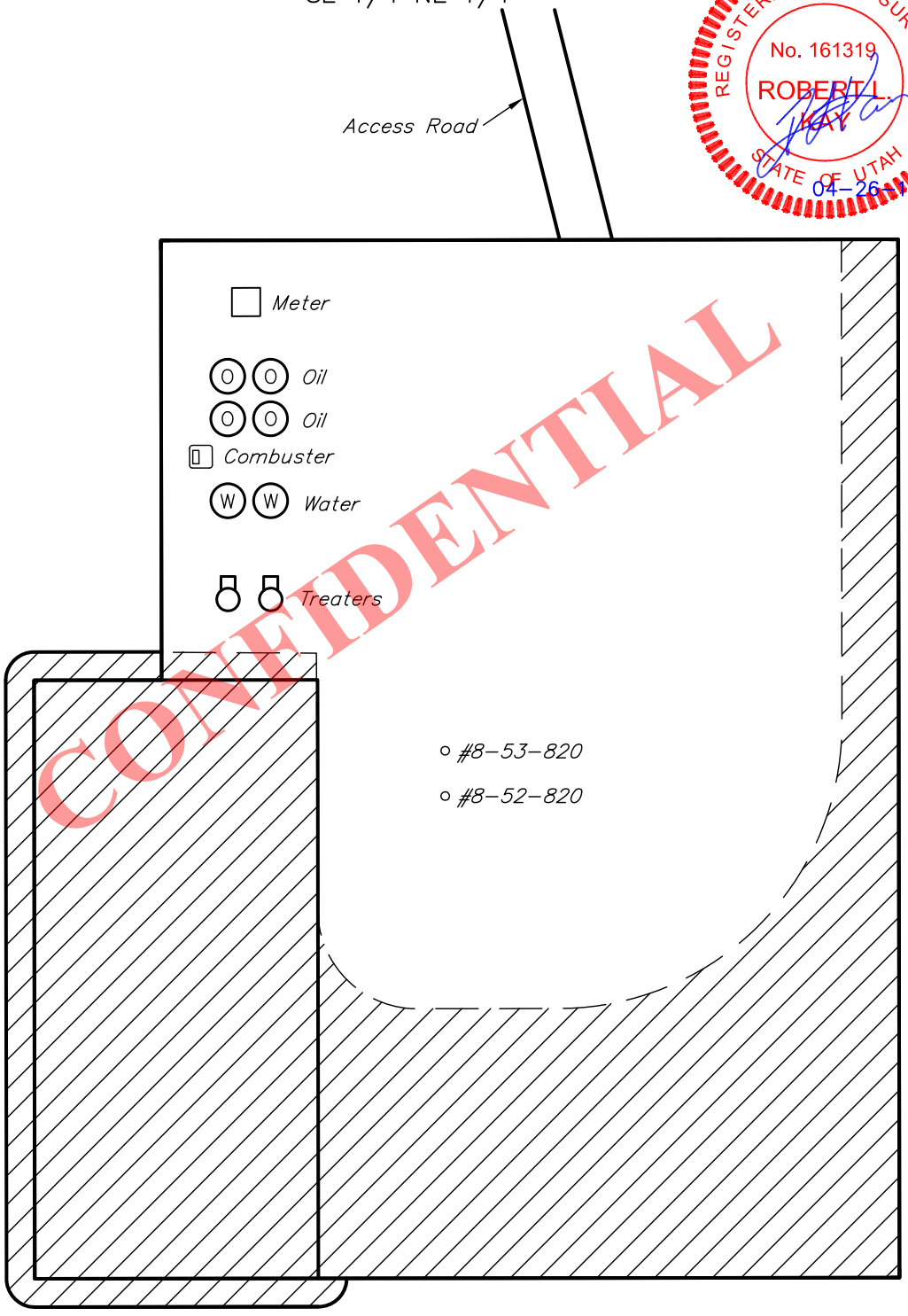
# AXIA ENERGY

## INTERIM RECLAMATION PLAN FOR

THREE RIVERS FEDERAL #8-52-820 & #8-53-820
SECTION 8, T8S, R20E, S.L.B.&M.
SE 1/4 NE 1/4

FIGURE #4
SCALE: 1" = 60'
DATE: 04-26-12
DRAWN BY: H.K.W.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
04-26-12





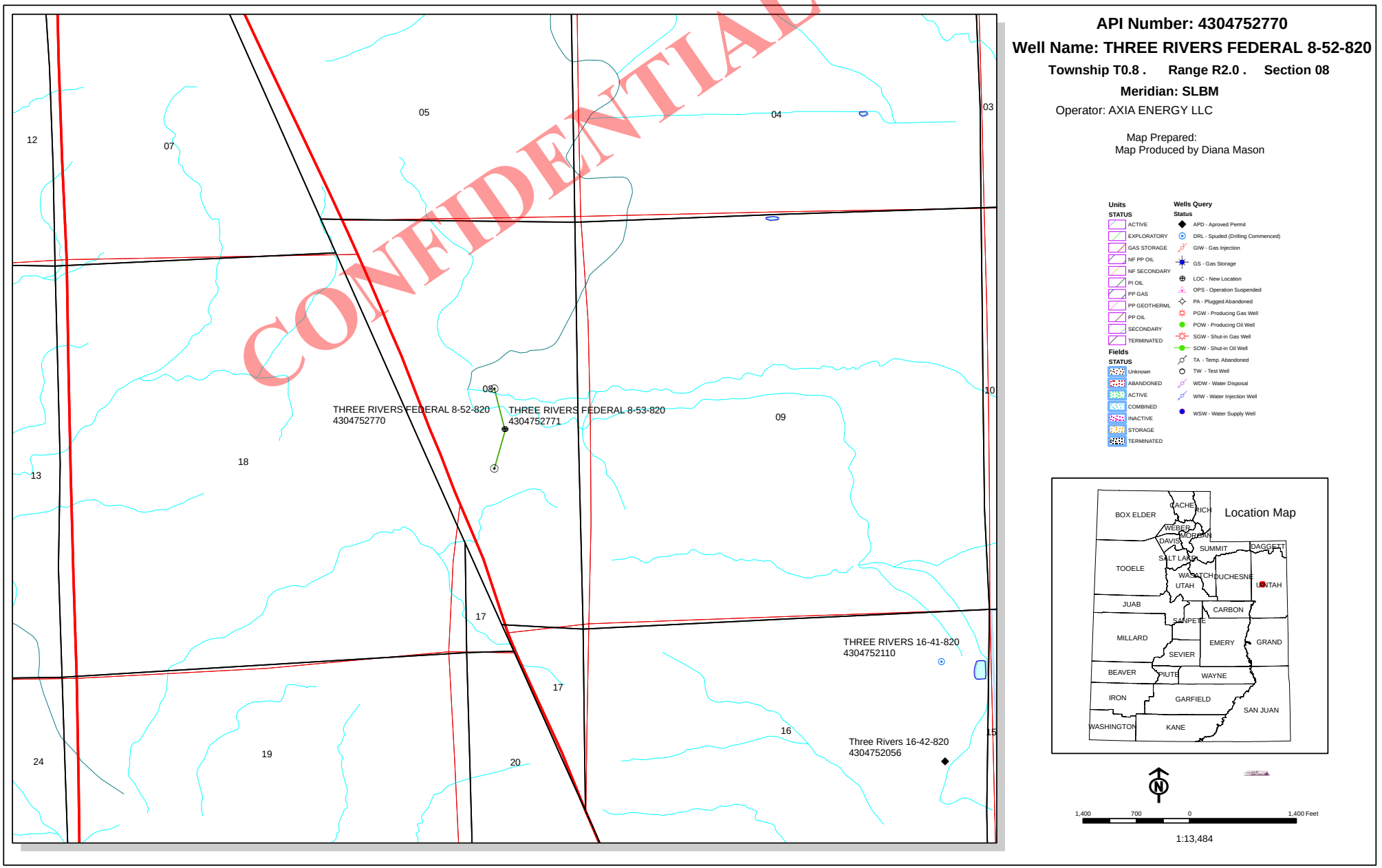

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 1.279 ACRES

RECLAIMED AREA

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: May 29, 2012

API Well Number: 43047527700000




RECEIVED: June 05, 2012

API Well Number: 43047527700000

Star Point Enterprises, Inc.

2580 Creekview Road
Moab, Utah 84532
435/719-2018

June 7, 2012

Mrs. Diana Mason
State of Utah
Division of Oil Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Request for Exception to Spacing – Axia Energy, LLC – **Three Rivers Federal 8-52-820**
*Surface Location:* 2112' FNL & 1200' FEL, SE/4 NE/4, Section 8, T8S, R20E,
*Target Location:* 1584' FNL & 1332' FEL, SE/4 NE/4, Section 8, T8S, R20E,
SLB&M, Uintah County, Utah

Dear Diana:

Axia Energy, LLC respectfully submits this request for exception to spacing (R649-3-11) based on geology since the well is located less than 460 feet to the drilling unit boundary. Axia Energy, LLC is the only owner and operator within 460 feet of the surface and target location as well as all points along the intended well bore path and are not within 460 feet of any uncommitted tracts or a unit boundary.

Thank you very much for your timely consideration of this application. Please feel free to contact Jess A. Peonio of Axia Energy, LLC at 720-746-5212 or myself should you have any questions or need additional information.

Sincerely,

Don Hamilton

Digitally signed by Don Hamilton
DN: cn=Don Hamilton, o=Star Point Enterprises, Inc., ou, email=starpoint@etv.net, c=US
Date: 2012.06.07 07:57:13 -06'00'

Don Hamilton
Agent for Axia Energy, LLC

cc: Jess A. Peonio, Axia Energy, LLC



RECEIVED: June 07, 2012

API Well Number: 43047527700000

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 5/29/2012
**API NO. ASSIGNED:** 43047527700000
**WELL NAME:** THREE RIVERS FEDERAL 8-52-820
**OPERATOR:** AXIA ENERGY LLC (N3765)
**PHONE NUMBER:** 435 719-2018
**CONTACT:** Don Hamilton

**PROPOSED LOCATION:** SENE 08 080S 200E
**Permit Tech Review:** ☑
**SURFACE:** 2112 FNL 1200 FEL
**Engineering Review:** ☐
**BOTTOM:** 1584 FNL 1332 FEL
**Geology Review:** ☑
**COUNTY:** UINTAH
**LATITUDE:** 40.13862
**LONGITUDE:** -109.68659
**UTM SURF EASTINGS:** 611890.00
**NORTHINGS:** 4443759.00
**FIELD NAME:** WILDCAT
**LEASE TYPE:** 1 - Federal
**LEASE NUMBER:** UTU85994
**PROPOSED PRODUCING FORMATION(S):** WASATCH
**SURFACE OWNER:** 1 - Federal
**COALBED METHANE:** NO



**RECEIVED AND/OR REVIEWED:**

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - LPM9046683
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 49-2262 - RNI at Green River
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

**Commingling Approved**

**LOCATION AND SITING:**

- ☐ **R649-2-3.**

**Unit:**

- ☐ **R649-3-2. General**
- ☑ **R649-3-3. Exception**
- ☑ **Drilling Unit**

**Board Cause No:** R649-3-11
**Effective Date:**
**Siting:**

- ☑ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**
1 - Exception Location - dmason
4 - Federal Approval - dmason
15 - Directional - dmason
23 - Spacing - dmason

RECEIVED: June 11, 2012

GARY R. HERBERT
*Governor*
GREGORY S. BELL
*Lieutenant Governor*

# State of Utah
**DEPARTMENT OF NATURAL RESOURCES**
MICHAEL R. STYLER
*Executive Director*
**Division of Oil, Gas and Mining**
JOHN R. BAZA
*Division Director*

# Permit To Drill
**********

**Well Name:** THREE RIVERS FEDERAL 8-52-820
**API Well Number:** 43047527700000
**Lease Number:** UTU85994
**Surface Owner:** FEDERAL
**Approval Date:** 6/11/2012

**Issued to:**
AXIA ENERGY LLC, 1430 Larimer Ste 400, Denver, CO 80202

**Authority:**
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**Exception Location:**
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

**General:**
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the “Board”). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

**Notification Requirements:**
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov

**Reporting Requirements:**
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

RECEIVED
MAY 08 2012
BLM

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

CONFIDENTIAL

| | |
|---|---|
| 1a. Type of Work: ☒ DRILL ☐ REENTER | 5. Lease Serial No. UTU85994 |
| | 6. If Indian, Allottee or Tribe Name |
| | 7. If Unit or CA Agreement, Name and No. |
| 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone | 8. Lease Name and Well No. THREE RIVERS FEDERAL 8-52-820 |
| 2. Name of Operator AXIA ENERGY LLC Contact: DON S HAMILTON E-Mail: starpoint@etv.net | 9. API Well No. 43-047-52770 |
| 3a. Address 1430 LARIMER STREET SUITE #400 DENVER, CO 80202 / 3b. Phone No. (include area code) Ph: 435-719-2018 Fx: 435-719-2019 | 10. Field and Pool, or Exploratory UNDESIGNATED |
| 4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface SENE 2112FNL 1200FEL 40.138550 N Lat, 109.687172 W Lon At proposed prod. zone SENE 1584FNL 1332FEL 40.140003 N Lat, 109.687669 W Lon | 11. Sec., T., R., M., or Blk. and Survey or Area Sec 8 T8S R20E Mer SLB SME: BLM |
| 14. Distance in miles and direction from nearest town or post office* 28.4 MILES SOUTHWEST OF VERNAL, UTAH | 12. County or Parish UINTAH / 13. State UT |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1200 / 16. No. of Acres in Lease 1817.57 | 17. Spacing Unit dedicated to this well 40.00 |
| 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 16 / 19. Proposed Depth 8798 MD 8722 TVD | 20. BLM/BIA Bond No. on file UTB000464 |
| 21. Elevations (Show whether DF, KB, RT, GL, etc. 4747 GL / 22. Approximate date work will start 08/01/2012 | 23. Estimated duration 60 DAYS |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

| | | |
|---|---|---|
| 25. Signature (Electronic Submission) | Name (Printed/Typed) DON S HAMILTON Ph: 435-719-2018 | Date 05/06/2012 |
| Title PERMITTING AGENT | | |
| Approved by (Signature) | Name (Printed/Typed) Jerry Kenczka | Date FEB 2 2 2013 |
| Title Assistant Field Manager Lands & Mineral Resources | Office VERNAL FIELD OFFICE | |

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Additional Operator Remarks (see next page)**

RECEIVED
MAR 01 2013
DIV. OF OIL, GAS & MINING

**Electronic Submission #137309 verified by the BLM Well Information System**
**For AXIA ENERGY LLC, sent to the Vernal**
**Committed to AFMSS for processing by LESLIE ROBINSON on 05/14/2012 (12LBR0656AE)**

NOTICE OF APPROVAL

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

12SXS0299AE NOS-2/15/12.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

## *CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL*

| | | | |
|---|---|---|---|
| **Company:** | **Axia Energy, LLC.** | **Location:** | **SENE, Sec. 8, T8S, R20E** |
| **Well No:** | **Three Rivers Federal 8-52-820** | **Lease No:** | **UTU-85994** |
| **API No:** | **43-047-52770** | **Agreement:** | |

# OFFICE NUMBER: (435) 781-4400

# OFFICE FAX NUMBER: (435) 781-3420

## A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

## NOTIFICATION REQUIREMENTS

| | | |
|---|---|---|
| Location Construction<br>(Notify Environmental Scientist) | - | Forty-Eight (48) hours prior to construction of location and access roads. |
| Location Completion<br>(Notify Environmental Scientist) | - | Prior to moving on the drilling rig. |
| Spud Notice<br>(Notify Petroleum Engineer) | - | Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing<br>(Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to running casing and cementing all casing strings to:<br>blm_ut_vn_opreport@blm.gov |
| BOP & Related Equipment Tests<br>(Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice<br>(Notify Petroleum Engineer) | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

***SURFACE USE PROGRAM***
***CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of $NO_x$ per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of $NO_x$ per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

- A permitted Paleontologist will perform spot checks during construction of well pad.

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NOx per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.

- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NOx per horsepower-hour.

- The following would be used as standard operating procedures: Green completion or controlled VOC emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting controls or flaring, Glycol Dehydration and Amine Unites, Well Completion, Re-Completion, Venting, and Planned Blowdown Emissions.

- All reclamation activities will comply with the Green River Reclamation Guidelines

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.

- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established

- Noxious and invasive weeds will be controlled by the proponent throughout the area of project disturbance.

- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.

- A pesticide use proposal (PUP) will be obtained for the project, by the proponent if applicable.

- A permitted paleontologist is to be present to monitor construction at all well pads during all surface disturbing actives: examples include the following; building of the well pad, access road, and pipelines.

- To maintain compliance with current cactus survey protocols, the following measures will be required

    - If construction does not occur within 4 years of the original survey date, new 100% clearance surveys will be required.
    - Prior to construction within 4 years of the original survey date, a spot check survey will be required during the year of construction. Axia and their respective 3rd party surveyor will refer to the current *Sclerocactus* Spot Check Survey Methods, to determine site specific survey distances and intensity levels.
    - Spot check reports will be reported to the BLM and the US Fish and Wildlife Service.
    - Construction will not commence until written approval is received from the BLM

- *Discovery Stipulation*: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Uinta Basin hookless cactus is anticipated as a result of project activities.

- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.

- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:

    - do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
    - limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
    - limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.

- Screen all pump intakes with 3/32 inch mesh material.

- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).

- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
  Northeastern Region
  152 East 100 North, Vernal, UT 84078
  Phone: (435) 781-9453

- AXIA can only use the following water source:
  Permit # 49-2357 R.N.I Industries.

***DOWNHOLE PROGRAM***
***CONDITIONS OF APPROVAL (COAs)***

**SITE SPECIFIC DOWNHOLE COAs:**

- Gamma Ray Log shall be run from Total Depth to Surface.
- CBL will be run from TD to TOC.
- Cement for the surface casing will be circulated to the surface.
- Cement for long-string shall be circulated 200' above surface casing shoe.
- Variances Granted
    - All variances approved as written in APD

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

- **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be

paid).

- The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
- The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
- Unit agreement and/or participating area name and number, if applicable.
- Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

# STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU85994

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**
Oil Well

**8. WELL NAME and NUMBER:**
THREE RIVERS FEDERAL 8-52-820

**2. NAME OF OPERATOR:**
AXIA ENERGY LLC

**9. API NUMBER:**
43047527700000

**3. ADDRESS OF OPERATOR:**
1430 Larimer Ste 400 , Denver, CO, 80202

**PHONE NUMBER:**
720 746-5200 Ext

**9. FIELD and POOL or WILDCAT:**
WILDCAT

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
2112 FNL 1200 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SENE Section: 08 Township: 08.0S Range: 20.0E Meridian: S

**COUNTY:**
UINTAH

**STATE:**
UTAH

**11.**
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ✓ NOTICE OF INTENT<br>Approximate date work will start:<br>9/15/2013 | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT<br>Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ✓ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

Axia Energy LLC respectfully requests a one year extension of the state drilling permit for the referenced well. This is the first extension that has been requested.

**Approved by the Utah Division of Oil, Gas and Mining**

**Date:** May 23, 2013

**By:**

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Don Hamilton | 435 719-2018 | Permitting Agent (Buys & Associates, Inc) |
| **SIGNATURE** | | **DATE** |
| N/A | | 5/19/2013 |

RECEIVED: May. 19, 2013

## The Utah Division of Oil, Gas, and Mining

**- State of Utah**
**- Department of Natural Resources**

**Electronic Permitting System - Sundry Notices**

## Request for Permit Extension Validation Well Number 43047527700000

**API:** 43047527700000
**Well Name:** THREE RIVERS FEDERAL 8-52-820
**Location:** 2112 FNL 1200 FEL QTR SENE SEC 08 TWNP 080S RNG 200E MER S
**Company Permit Issued to:** AXIA ENERGY LLC
**Date Original Permit Issued:** 6/11/2012

**The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.**

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

**Signature:** Don Hamilton **Date:** 5/19/2013
**Title:** Permitting Agent (Buys & Associates, Inc) **Representing:** AXIA ENERGY LLC

RECEIVED: May. 19, 2013

Sundry Number: 42074 API Well Number: 43047527700000

**FEDERAL APPROVAL OF THIS ACTION IS NECESSARY**

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:**
UTU85994

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**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**
Oil Well

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AXIA ENERGY LLC

**9. API NUMBER:**
43047527700000

**3. ADDRESS OF OPERATOR:**
1430 Larimer Ste 400 , Denver, CO, 80202

**PHONE NUMBER:**
720 746-5200 Ext

**9. FIELD and POOL or WILDCAT:**
THREE RIVERS

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
2112 FNL 1200 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SENE Section: 08 Township: 08.0S Range: 20.0E Meridian: S

**COUNTY:**
UINTAH

**STATE:**
UTAH

**11.**
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ✓ NOTICE OF INTENT<br>Approximate date work will start:<br>10/1/2013 | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| | ✓ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT<br>Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

Axia Energy, LLC. respectfully requests changes to the previously approved APD as follows: Bottom Hole Location: FROM: SENE 1584' FNL & 1332' FEL TO: SWNE 1980' FNL & 1954' FEL Surface Casing: FROM: 8.625" 32.00# J-55 STC TO: 8.625" 24.00# J-55 STC. Production Casing: FROM: 5.5" 17.00# N-80 LTC TO: 5.5" 17.00# J-55 LTC. Depth: FROM: 8,798' TD TO: 7,004' TD Cement requirements will be followed per the approved APD.

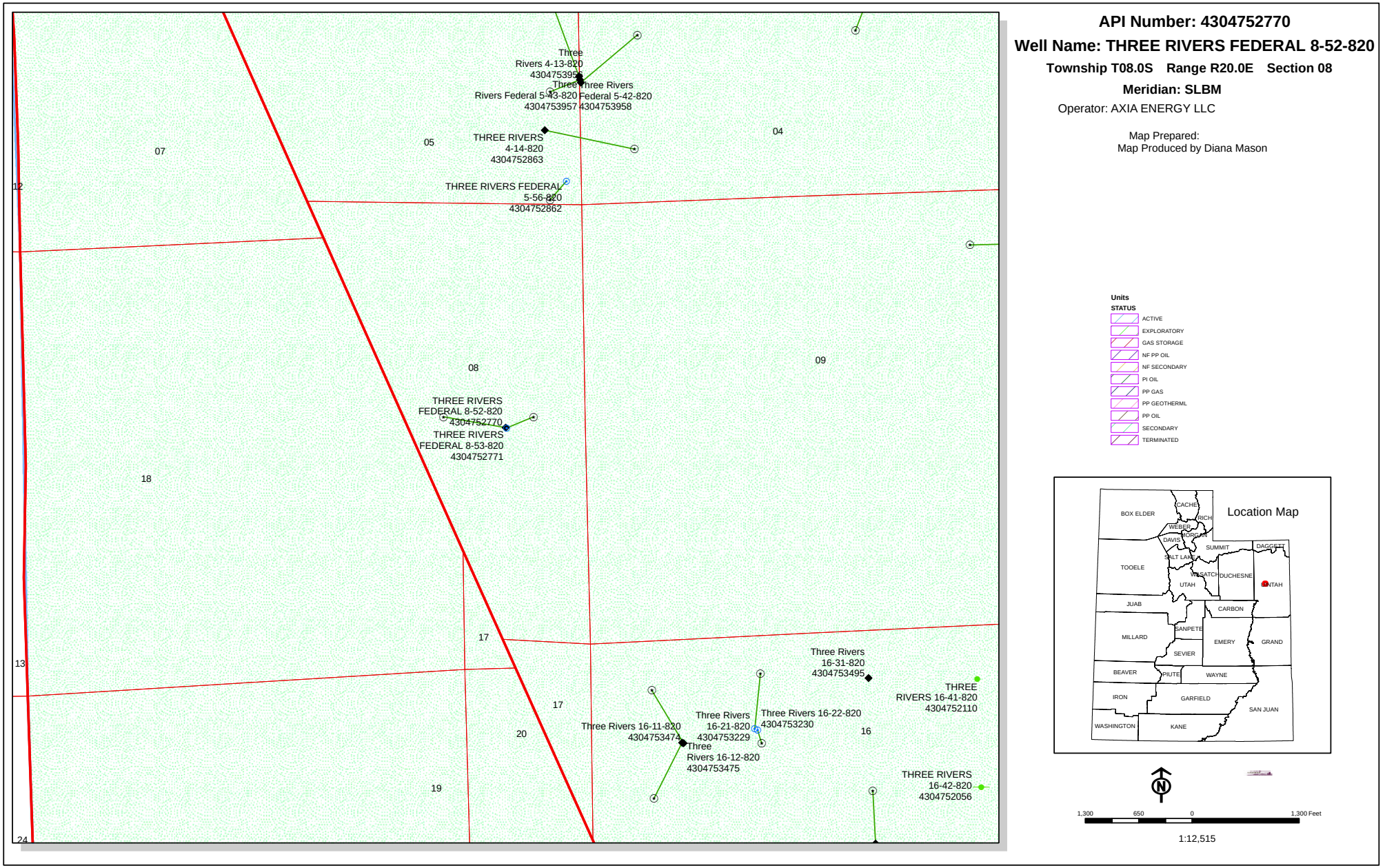
**Approved by the Utah Division of Oil, Gas and Mining**

**Date:** September 12, 2013

**By:**

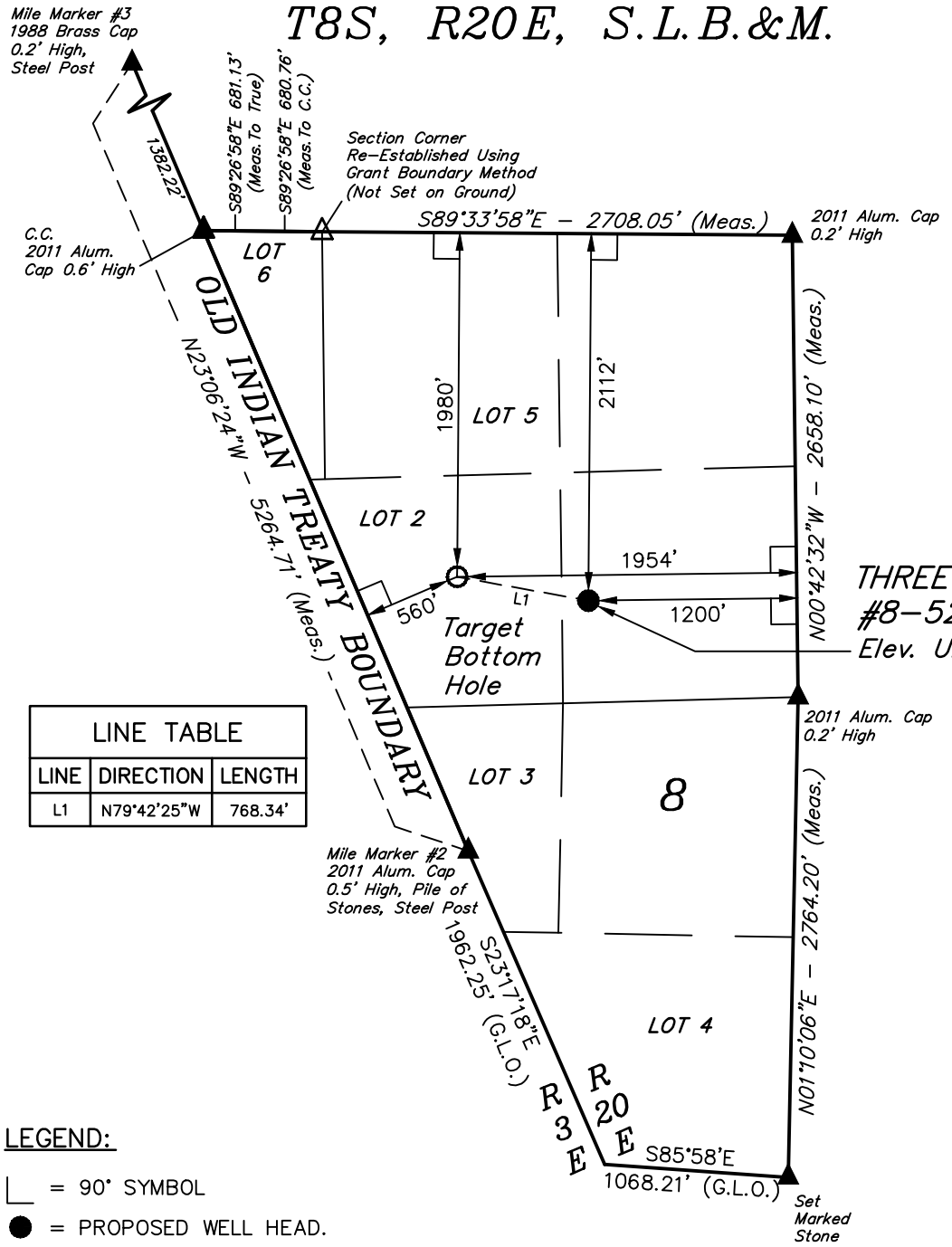
| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Cindy Turner | 720 746-5209 | Project Manager |
| **SIGNATURE** | | **DATE** |
| N/A | | 9/4/2013 |

RECEIVED: Sep. 04, 2013




RECEIVED: Sep. 10, 2013

# T8S, R20E, S.L.B.&M.




| LINE TABLE | | |
|---|---|---|
| LINE | DIRECTION | LENGTH |
| L1 | N79°42'25"W | 768.34' |

## AXIA ENERGY

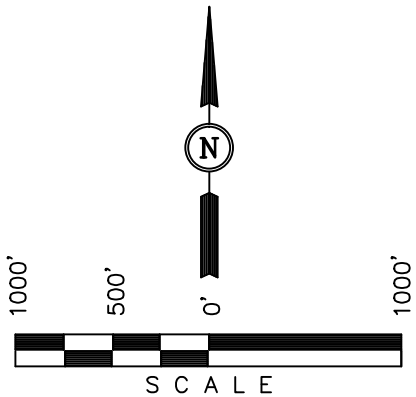
Well location, THREE RIVERS FEDERAL #8-52-820, located as shown in the SE 1/4 NE 1/4 of Section 8, T8S, R20E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

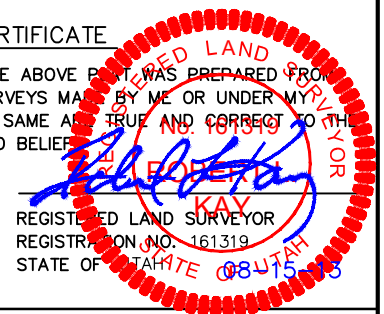
### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.




### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.




REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH 08-15-13

REVISED: 08-15-13 T.R.

LEGEND:

- ∟ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

| NAD 83 (TARGET BOTTOM HOLE) | NAD 83 (SURFACE LOCATION) |
|---|---|
| LATITUDE = 40°08'20.14" (40.138928) | LATITUDE = 40°08'18.78" (40.138550) |
| LONGITUDE = 109°41'23.56" (109.689878) | LONGITUDE = 109°41'13.82" (109.687172) |
| **NAD 27 (TARGET BOTTOM HOLE)** | **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°08'20.27" (40.138964) | LATITUDE = 40°08'18.91" (40.138586) |
| LONGITUDE = 109°41'21.05" (109.689181) | LONGITUDE = 109°41'11.32" (109.686478) |

**UINTAH ENGINEERING & LAND SURVEYING**
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

| SCALE | DATE SURVEYED: | DATE DRAWN: |
|---|---|---|
| 1" = 1000' | 12-07-11 | 02-02-12 |
| PARTY: C.R. S.R. H.W. | REFERENCES: G.L.O. PLAT | |
| WEATHER: COLD | FILE: AXIA ENERGY | |

RECEIVED: Sep. 04, 2013

# Bighorn Directional, Inc.

Axia Energy
Three Rivers 8-52-820
Uintah County, Utah




Minimum of Curvature
Slot Location: 7224327.27', 2147197.10'
Plane of Vertical Section: 279.15°

| Measured Depth Feet | BORE Inc Degrees | HOLE Direction Degrees | True Vertical Depth Feet | RECTANGULAR COORDINATES North(-South) Feet | East(-West) Feet | LAMBERT COORDINATES Y Feet | X Feet | Vertical Section Feet | CLOSURES Distance Feet | Direction Deg | Dogleg Severity Deg/100' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1200.00 | 0.00 | 0.00 | 1200.00 | 0.00 | 0.00 | 7224327.3 | 2147197.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| KOP / Start Build | | | | | | | | | | | |
| 1300.00 | 2.00 | 279.15 | 1299.98 | 0.28 | -1.72 | 7224327.5 | 2147195.4 | 1.75 | 1.75 | 279.15 | 2.00 |
| 1400.00 | 4.00 | 279.15 | 1399.84 | 1.11 | -6.89 | 7224328.4 | 2147190.2 | 6.98 | 6.98 | 279.15 | 2.00 |
| 1500.00 | 6.00 | 279.15 | 1499.45 | 2.50 | -15.49 | 7224329.8 | 2147181.6 | 15.69 | 15.69 | 279.15 | 2.00 |
| 1600.00 | 8.00 | 279.15 | 1598.70 | 4.43 | -27.53 | 7224331.7 | 2147169.6 | 27.88 | 27.88 | 279.15 | 2.00 |
| 1700.00 | 10.00 | 279.15 | 1697.47 | 6.92 | -42.97 | 7224334.2 | 2147154.1 | 43.52 | 43.52 | 279.15 | 2.00 |
| 1800.00 | 12.00 | 279.15 | 1795.62 | 9.96 | -61.81 | 7224337.2 | 2147135.3 | 62.60 | 62.60 | 279.15 | 2.00 |
| 1900.00 | 14.00 | 279.15 | 1893.06 | 13.53 | -84.01 | 7224340.8 | 2147113.1 | 85.10 | 85.10 | 279.15 | 2.00 |
| 2000.00 | 16.00 | 279.15 | 1989.64 | 17.65 | -109.56 | 7224344.9 | 2147087.5 | 110.98 | 110.98 | 279.15 | 2.00 |
| 2100.00 | 18.00 | 279.15 | 2085.27 | 22.30 | -138.43 | 7224349.6 | 2147058.7 | 140.21 | 140.21 | 279.15 | 2.00 |
| 2157.14 | 19.14 | 279.15 | 2139.43 | 25.19 | -156.39 | 7224352.5 | 2147040.7 | 158.41 | 158.41 | 279.15 | 2.00 |
| End Build | | | | | | | | | | | |
| 2657.14 | 19.14 | 279.15 | 2611.78 | 51.27 | -318.27 | 7224378.5 | 2146878.8 | 322.37 | 322.37 | 279.15 | 0.00 |
| 2750.52 | 19.14 | 279.15 | 2700.00 | 56.14 | -348.50 | 7224383.4 | 2146848.6 | 353.00 | 353.00 | 279.15 | 0.00 |
| Top Green River | | | | | | | | | | | |
| 3100.89 | 19.14 | 279.15 | 3031.00 | 74.41 | -461.94 | 7224401.7 | 2146735.2 | 467.89 | 467.89 | 279.15 | 0.00 |
| Top Birds Nest | | | | | | | | | | | |
| 3535.50 | 19.14 | 279.15 | 3441.57 | 97.08 | -602.64 | 7224424.3 | 2146594.5 | 610.41 | 610.41 | 279.15 | 0.00 |
| Start Drop | | | | | | | | | | | |
| 3566.59 | 18.52 | 279.15 | 3471.00 | 98.67 | -612.55 | 7224425.9 | 2146584.6 | 620.45 | 620.45 | 279.15 | 2.00 |
| Base Birds Nest | | | | | | | | | | | |
| 3666.59 | 16.52 | 279.15 | 3566.35 | 103.46 | -642.27 | 7224430.7 | 2146554.8 | 650.55 | 650.55 | 279.15 | 2.00 |
| 3766.59 | 14.52 | 279.15 | 3662.70 | 107.72 | -668.69 | 7224435.0 | 2146528.4 | 677.31 | 677.31 | 279.15 | 2.00 |
| 3866.59 | 12.52 | 279.15 | 3759.93 | 111.44 | -691.77 | 7224438.7 | 2146505.3 | 700.69 | 700.69 | 279.15 | 2.00 |
| 3966.59 | 10.52 | 279.15 | 3857.91 | 114.61 | -711.49 | 7224441.9 | 2146485.6 | 720.66 | 720.66 | 279.15 | 2.00 |
| 4066.59 | 8.52 | 279.15 | 3956.52 | 117.24 | -727.82 | 7224444.5 | 2146469.3 | 737.20 | 737.20 | 279.15 | 2.00 |

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# Bighorn Directional, Inc.

Axia Energy
Three Rivers 8-52-820
Uintah County, Utah




Minimum of Curvature
Slot Location: 7224327.27', 2147197.10'
Plane of Vertical Section: 279.15°

| Measured Depth Feet | BORE Inc Degrees | HOLE Direction Degrees | True Vertical Depth Feet | RECTANGULAR COORDINATES North(-South) Feet | East(-West) Feet | LAMBERT COORDINATES Y Feet | X Feet | Vertical Section Feet | CLOSURES Distance Feet | Direction Deg | Dogleg Severity Deg/100' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4117.56 | 7.50 | 279.15 | 4007.00 | 118.37 | -734.83 | 7224445.6 | 2146462.3 | 744.30 | 744.30 | 279.15 | 2.00 |
| Temperature 120 | | | | | | | | | | | |
| 4217.56 | 5.50 | 279.15 | 4106.35 | 120.17 | -746.01 | 7224447.4 | 2146451.1 | 755.63 | 755.63 | 279.15 | 2.00 |
| 4317.56 | 3.50 | 279.15 | 4206.04 | 121.42 | -753.76 | 7224448.7 | 2146443.3 | 763.47 | 763.47 | 279.15 | 2.00 |
| 4417.56 | 1.50 | 279.15 | 4305.94 | 122.11 | -758.06 | 7224449.4 | 2146439.0 | 767.84 | 767.84 | 279.15 | 2.00 |
| 4492.63 | 0.00 | 279.15 | 4381.00 | 122.27 | -759.03 | 7224449.5 | 2146438.1 | 768.82 | 768.82 | 279.15 | 2.00 |
| Vertical Point | | | | | | | | | | | |
| 4737.63 | 0.00 | 279.15 | 4626.00 | 122.27 | -759.03 | 7224449.5 | 2146438.1 | 768.82 | 768.82 | 279.15 | 0.00 |
| Garden Gulch | | | | | | | | | | | |
| 4892.63 | 0.00 | 279.15 | 4781.00 | 122.27 | -759.03 | 7224449.5 | 2146438.1 | 768.82 | 768.82 | 279.15 | 0.00 |
| TGR3 | | | | | | | | | | | |
| 6553.63 | 0.00 | 279.15 | 6442.00 | 122.27 | -759.03 | 7224449.5 | 2146438.1 | 768.82 | 768.82 | 279.15 | 0.00 |
| Top Uteland Butte | | | | | | | | | | | |
| 6703.63 | 0.00 | 279.15 | 6592.00 | 122.27 | -759.03 | 7224449.5 | 2146438.1 | 768.82 | 768.82 | 279.15 | 0.00 |
| Top Wasatch | | | | | | | | | | | |
| 7003.63 | 0.00 | 279.15 | 6892.00 | 122.27 | -759.03 | 7224449.5 | 2146438.1 | 768.82 | 768.82 | 279.15 | 0.00 |
| TD | | | | | | | | | | | |

Final Station Closure Distance: 768.82'  Direction: 279.15°

RECEIVED: Sep. 04, 2013

# Axia Energy

Three Rivers 8-52-820
Uintah County, Utah

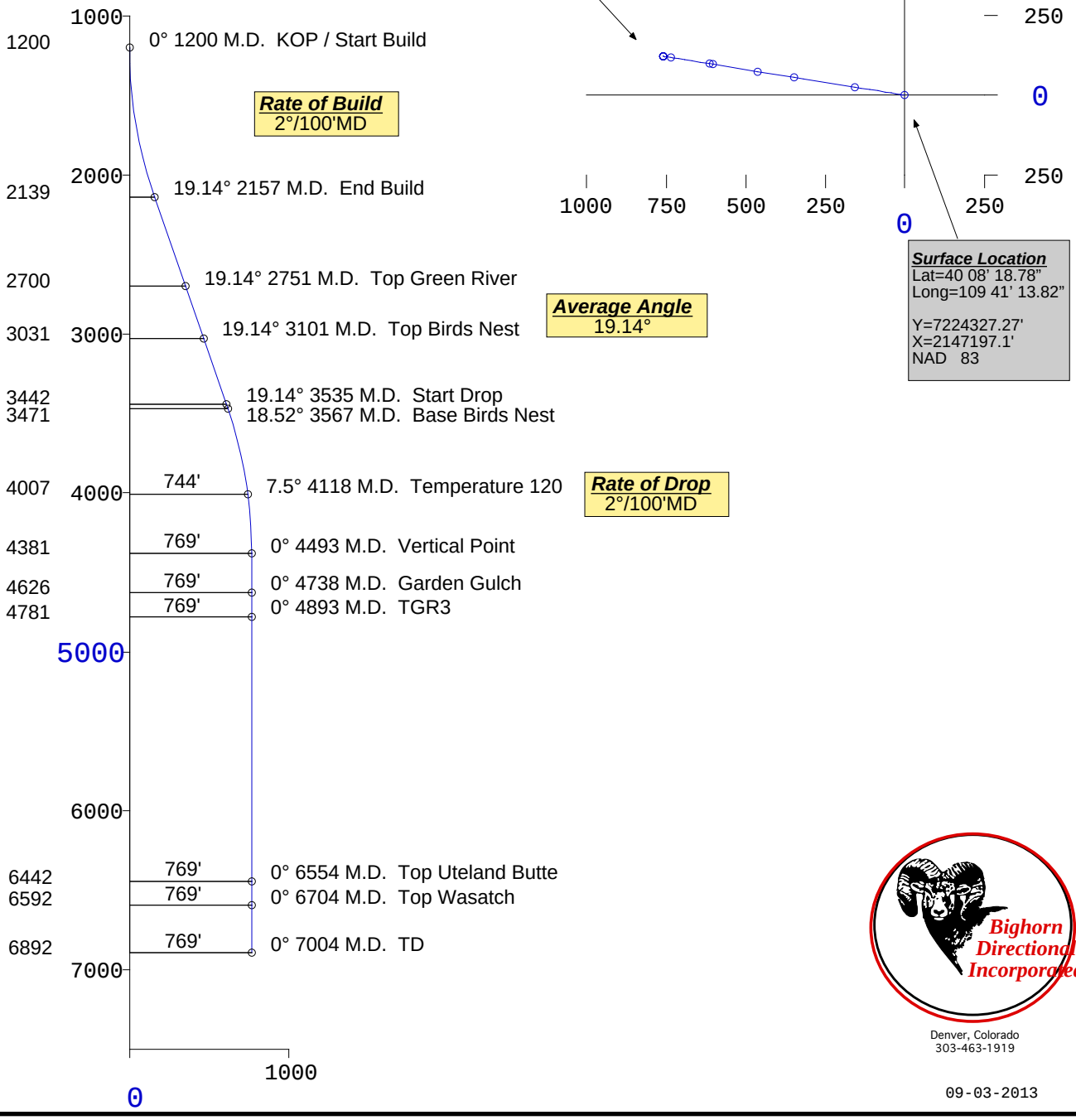
**Horizontal Plan**
1" = 500'

N

**Vertical Point**
768.82' Displacement from S/L
@ 279.15° Azimuth from S/L
North-122.27' West-759.03' of S/L
TVD-4381' MD-4493'
Y=7224449.5', X=2146438.1'
**TD**
TVD-6892' MD-7004'

**Plane of Proposal**
279.15° Azimuth

**Vertical Section**
1" = 1000'




**Average Angle**
19.14°

**Surface Location**
Lat=40 08' 18.78"
Long=109 41' 13.82"

Y=7224327.27'
X=2147197.1'
NAD 83

Bighorn Directional Incorporated
Denver, Colorado
303-463-1919

09-03-2013

RECEIVED: Sep. 04, 2013

# Spud Notice

**Cordell Wold** <cwold@axiaenergy.com> Wed, Sep 18, 2013 at 8:45 AM
To: Cordell Wold <cwold@axiaenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, Dan Jarvis <danjarvis@utah.gov>, "richardpowell@utah.gov" <richardpowell@utah.gov>, "cctaylor@blm.gov" <cctaylor@blm.gov>
Cc: Cindy Turner <cturner@axiaenergy.com>, Jess Peonio <jpeonio@axiaenergy.com>, Bryce Holder <bholder@axiaenergy.com>, klbascom <klbascom@ubtanet.com>, Ray Meeks <ray.meeks_bmg@hotmail.com>

Pete Martin is moving onto the Three Rivers 4-14-820 on 09/18/2013 to drill and be setting conductor on 09/19/2013.

This well was called the Three Rivers Federal 5-55-820 API #43-047-528630000. We have submitted a sundry notice of the name change.

Any Questions;

Cordell Wold

Axia Energy

701-570-5540

RECEIVED
SEP 19 2013
DIV. OF OIL, GAS & MINING

CONFIDENTIAL

SE NE S-08 T 08S R20E 43-047-52770

**Cordell Wold** <cwold@axiaenergy.com> Thu, Sep 19, 2013 at 7:06 AM
To: Cordell Wold <cwold@axiaenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, Dan Jarvis <danjarvis@utah.gov>, "richardpowell@utah.gov" <richardpowell@utah.gov>, "cctaylor@blm.gov" <cctaylor@blm.gov>
Cc: Cindy Turner <cturner@axiaenergy.com>, Jess Peonio <jpeonio@axiaenergy.com>, Bryce Holder <bholder@axiaenergy.com>, klbascom <klbascom@ubtanet.com>, Ray Meeks <ray.meeks_bmg@hotmail.com>

Pete Martin is moving onto the Three Rivers Federal #8-52-820 on 09/19/2013 to drill and be setting conductor on 09/19/2013. API #43-047-5277000

Any Questions;

SENE S-08 ~~T24S~~ T08S R20E

## Resume of operations

CONFIDENTIAL

**Cordell Wold** <cwold@axiaenergy.com> Sat, Sep 21, 2013 at 11:32 AM
To: Cordell Wold <cwold@axiaenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, Dan Jarvis <danjarvis@utah.gov>, "richardpowell@utah.gov" <richardpowell@utah.gov>, "cctaylor@blm.gov" <cctaylor@blm.gov>
Cc: Cindy Turner <cturner@axiaenergy.com>, Jess Peonio <jpeonio@axiaenergy.com>, Bryce Holder <bholder@axiaenergy.com>, klbascom <klbascom@ubtanet.com>, Ray Meeks <ray.meeks_bmg@hotmail.com>

ProPetro is moving onto the Three Rivers Federal #8-52-820 on 09/21/2013 to drill and be setting surface casing on 09/22/2013. API #43-047-5277000

Any Questions;

Cordell Wold

Axia Energy

701-570-5540



**Cordell Wold** <cwold@axiaenergy.com> Sat, Sep 21, 2013 at 11:35 AM
To: Cordell Wold <cwold@axiaenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, Dan Jarvis <danjarvis@utah.gov>, "richardpowell@utah.gov" <richardpowell@utah.gov>, "cctaylor@blm.gov" <cctaylor@blm.gov>
Cc: Cindy Turner <cturner@axiaenergy.com>, Jess Peonio <jpeonio@axiaenergy.com>, Bryce Holder <bholder@axiaenergy.com>, klbascom <klbascom@ubtanet.com>, Ray Meeks <ray.meeks_bmg@hotmail.com>

ProPetro is moving onto the Three Rivers 4-14-820 on 09/22/2013 to drill and be setting surface casing on 09/22/2013.

This well was called the Three Rivers Federal 5-55-820 API #43-047-528630000. We have submitted a sundry notice of the name change.

# STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU85994

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**
Oil Well

**8. WELL NAME and NUMBER:**
THREE RIVERS FEDERAL 8-52-820

**2. NAME OF OPERATOR:**
AXIA ENERGY LLC

**9. API NUMBER:**
43047527700000

**3. ADDRESS OF OPERATOR:**
1430 Larimer Ste 400 , Denver, CO, 80202

**PHONE NUMBER:**
720 746-5200 Ext

**9. FIELD and POOL or WILDCAT:**
THREE RIVERS

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
2112 FNL 1200 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SENE Section: 08 Township: 08.0S Range: 20.0E Meridian: S

**COUNTY:**
UINTAH

**STATE:**
UTAH

**11.**
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☑ SPUD REPORT<br>Date of Spud:<br>9/19/2013 | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ DRILLING REPORT<br>Report Date: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

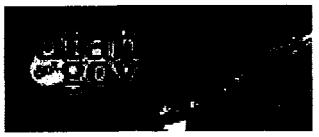
MIRU Pete Martin conductor rig. Set 120' of conductor casing and cement to surface. Release rig.

**Accepted by the**
**Utah Division of**
**Oil, Gas and Mining**
**FOR RECORD ONLY**
October 08, 2013

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Cindy Turner | 720 746-5209 | Project Manager |
| **SIGNATURE** | | **DATE** |
| N/A | | 10/8/2013 |

RECEIVED: Oct. 08, 2013

CONFIDENTIAL



SENE S-08 T08S R20E 4304752790

# Three Rivers Federal 8-52-820- Axia

1 message

**Ray Meeks** <ray.meeks_bmg@hotmail.com> Sat, Oct 26, 2013 at 3:38 AM
To: "cctaylor@blm.gov" <cctaylor@blm.gov>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "richardpowell@utah.gov" <richardpowell@utah.gov>, "danjarvis@utah.gov" <danjarvis@utah.gov>
Cc: "cwold@axiaenergy.com" <cwold@axiaenergy.com>

We have reached TD of 6992' on Axia's Three Rivers Federal on Capstar rig 321. We will be running casing and cementing late 10/26/13 or early 10/27/13. Any questions please call me Ray Meeks 435-828-5550

Sundry Number: 45151 API Well Number: 43047527700000

**FEDERAL APPROVAL OF THIS ACTION IS NECESSARY**

# STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU85994

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**
Oil Well

**8. WELL NAME and NUMBER:**
THREE RIVERS FEDERAL 8-52-820

**2. NAME OF OPERATOR:**
AXIA ENERGY LLC

**9. API NUMBER:**
43047527700000

**3. ADDRESS OF OPERATOR:**
1430 Larimer Ste 400 , Denver, CO, 80202

**PHONE NUMBER:**
720 746-5200 Ext

**9. FIELD and POOL or WILDCAT:**
THREE RIVERS

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
2112 FNL 1200 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SENE Section: 08 Township: 08.0S Range: 20.0E Meridian: S

**COUNTY:**
UINTAH

**STATE:**
UTAH

**11.**
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ✓ SUBSEQUENT REPORT<br>Date of Work Completion:<br>11/8/2013 | ✓ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT<br>Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

APD was approved on 06-11-12 as a Wasatch completion. However, there was a change in plans and we request your approval for a GREEN RIVER Completion. Bottom Perf = 6,629' Top of Wasatch = 6,644' Please update Entity Action Number 19156 to GRRV.

**Accepted by the Utah Division of Oil, Gas and Mining**

**Date:** November 21, 2013

**By:** Dark K Quist

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Cindy Turner | 720 746-5209 | Project Manager |
| **SIGNATURE** | | **DATE** |
| N/A | | 11/19/2013 |

RECEIVED: Nov. 19, 2013

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

# Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

| | |
|---|---|
| **Well name:** | See Attached List |
| **API number:** | |
| **Location:** | Qtr-Qtr: Section: Township: Range: |
| **Company that filed original application:** | Don Hamilton - Star Point Enterprises for Axia Energy, LLC |
| **Date original permit was issued:** | |
| **Company that permit was issued to:** | Axia Energy, LLC |

| Check one | Desired Action: |
|---|---|
| | |
| | **Transfer pending (unapproved) Application for Permit to Drill to new operator** |
| | The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application. |
| ✓ | **Transfer approved Application for Permit to Drill to new operator** |
| | The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. |

| **Following is a checklist of some items related to the application, which should be verified.** | Yes | No |
|---|---|---|
| If located on private land, has the ownership changed? | | ✓ |
| If so, has the surface agreement been updated? | | ✓ |
| Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? | | ✓ |
| Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? | | ✓ |
| Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location? | | ✓ |
| Has the approved source of water for drilling changed? | | ✓ |
| Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? | | ✓ |
| Is bonding still in place, which covers this proposed well? Bond No. _____ | | ✓ |

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

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DEC 16 2013
DIV. OF OIL, GAS & MINING

Name (please print) Mary Sharon Balakas Title Attorney in Fact

Signature Mary Sharon Balakas Date 12/11/13

Representing (company name) Ultra Resources

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

**Division of Oil, Gas and Mining**

# OPERATOR CHANGE WORKSHEET (for state use only)

**ROUTING**
CDW

**X - Change of Operator (Well Sold)** Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **10/1/2013**

| **FROM:** (Old Operator): | **TO:** ( New Operator): |
|---|---|
| N3765-Axia Energy, LLC | N4045-Ultra Resources, Inc. |
| 1430 Larimer Street, Suite 400 | 304 Inverness Way South, Suite 295 |
| Denver, CO 80202 | Englewood, CO 80112 |
| Phone: 1 (720) 746-5200 | Phone: 1 (303) 645-9810 |

**CA No.** **Unit:** N/A

| WELL NAME | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|---|---|---|---|---|---|---|---|---|
| See Attached List | | | | | | | | |

## OPERATOR CHANGES DOCUMENTATION

**Enter date after each listed item is completed**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/16/2013
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 12/16/2013
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 1/14/2014
4a. Is the new operator registered in the State of Utah: _____ Business Number: 8861713-0143
5a. (R649-9-2)Waste Management Plan has been received on: N/A
5b. Inspections of LA PA state/fee well sites complete on: N/A
5c. Reports current for Production/Disposition & Sundries on: 1/14/2014
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

## DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 1/14/2014
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 1/14/2014
3. Bond information entered in RBDMS on: 1/14/2014
4. Fee/State wells attached to bond in RBDMS on: 1/14/2014
5. Injection Projects to new operator in RBDMS on: N/A
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 1/14/2014
7. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: Yes

## BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 22046400
2. Indian well(s) covered by Bond Number: 22046400
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 22046398
3b. The **FORMER** operator has requested a release of liability from their bond on: Not Yet

## LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/14/2014

**COMMENTS:**

Axia Energy, LLC (N3765) to Ultra Resources, Inc. (N4045) Effective 10/1/2013

| Well Name | Sec | TWN | RNG | API Number | Entity | Mineral Lease | Well Type | Well Status |
|---|---|---|---|---|---|---|---|---|
| THREE RIVERS 2-41-820 | 2 | 080S | 200E | 4304752686 | | State | OW | APD |
| THREE RIVERS 2-25-820 | 2 | 080S | 200E | 4304752690 | | State | OW | APD |
| THREE RIVERS 36-21-720 | 36 | 070S | 200E | 4304752698 | | State | OW | APD |
| THREE RIVERS 36-13-720 | 36 | 070S | 200E | 4304752699 | | State | OW | APD |
| THREE RIVERS FEDERAL 3-54-82( | 3 | 080S | 200E | 4304752860 | | Federal | OW | APD |
| THREE RIVERS FEDERAL 3-33-82( | 3 | 080S | 200E | 4304752864 | | Federal | OW | APD |
| THREE RIVERS FED 35-34-720 | 35 | 070S | 200E | 4304753006 | | Federal | OW | APD |
| THREE RIVERS FED 35-42-720 | 35 | 070S | 200E | 4304753007 | | Federal | OW | APD |
| THREE RIVERS FED 35-44-720 | 35 | 070S | 200E | 4304753008 | | Federal | OW | APD |
| Three Rivers 2-32-820 | 2 | 080S | 200E | 4304753274 | | State | OW | APD |
| Three Rivers 18-21-821 | 18 | 080S | 210E | 4304753276 | | Fee | OW | APD |
| Three Rivers 18-31-821 | 18 | 080S | 210E | 4304753277 | | Fee | OW | APD |
| Three Rivers 27-34-720 | 34 | 070S | 200E | 4304753278 | | Fee | OW | APD |
| Three Rivers 34-31T-720 | 34 | 070S | 200E | 4304753281 | | Fee | OW | APD |
| Three Rivers Federal 35-14-720 | 35 | 070S | 200E | 4304753553 | | Federal | OW | APD |
| Three Rivers Federal 35-13-720 | 35 | 070S | 200E | 4304753554 | | Federal | OW | APD |
| Three Rivers 7-34-821 | 7 | 080S | 210E | 4304753558 | | Fee | OW | APD |
| Three Rivers 7-23-821 | 7 | 080S | 210E | 4304753559 | | Fee | OW | APD |
| Three Rivers 7-21-821 | 7 | 080S | 210E | 4304753560 | | Fee | OW | APD |
| Three Rivers 7-22-821 | 7 | 080S | 210E | 4304753561 | | Fee | OW | APD |
| Three Rivers 7-12-821 | 7 | 080S | 210E | 4304753562 | | Fee | OW | APD |
| Three Rivers 18-22-821 | 18 | 080S | 210E | 4304753620 | | Fee | OW | APD |
| Three Rivers 18-32-821 | 18 | 080S | 210E | 4304753621 | | Fee | OW | APD |
| Three Rivers D | 16 | 080S | 200E | 4304753702 | | State | WD | APD |
| Three Rivers Federal 4-41-820 | 4 | 080S | 200E | 4304753911 | | Federal | OW | APD |
| Three Rivers Federal 4-42-820 | 4 | 080S | 200E | 4304753913 | | Federal | OW | APD |
| Three Rivers Federal 3-12-820 | 4 | 080S | 200E | 4304753914 | | Federal | OW | APD |
| Three Rivers Federal 34-42-720 | 35 | 070S | 200E | 4304753915 | | Federal | OW | APD |
| Three Rivers Federal 34-43-720 | 35 | 070S | 200E | 4304753916 | | Federal | OW | APD |
| Three Rivers Federal 35-12-720 | 35 | 070S | 200E | 4304753917 | | Federal | OW | APD |
| Three Rivers Federal 35-43-720 | 35 | 070S | 200E | 4304753918 | | Federal | OW | APD |
| Three Rivers Federal 35-442-720 | 35 | 070S | 200E | 4304753919 | | Federal | OW | APD |
| Three Rivers Federal 35-21-720 | 35 | 070S | 200E | 4304753943 | | Federal | OW | APD |
| Three Rivers Federal 35-11-720 | 35 | 070S | 200E | 4304753944 | | Federal | OW | APD |
| Three Rivers 2-24-820 | 2 | 080S | 200E | 4304753945 | | State | OW | APD |
| Three Rivers 2-223-820 | 2 | 080S | 200E | 4304753946 | | State | OW | APD |
| Three Rivers 2-21-820 | 2 | 080S | 200E | 4304753947 | | State | OW | APD |
| Three Rivers 2-22-820 | 2 | 080S | 200E | 4304753948 | | State | OW | APD |
| Three Rivers 32-42-720 | 32 | 070S | 200E | 4304753949 | | Fee | OW | APD |
| Three Rivers Federal 3-13-820 | 3 | 080S | 200E | 4304753951 | | Federal | OW | APD |
| Three Rivers Federal 3-14-820 | 3 | 080S | 200E | 4304753952 | | Federal | OW | APD |
| Three Rivers Federal 3-23-820 | 3 | 080S | 200E | 4304753953 | | Federal | OW | APD |
| Three Rivers Federal 3-24-820 | 3 | 080S | 200E | 4304753954 | | Federal | OW | APD |
| Three Rivers 4-13-820 | 5 | 080S | 200E | 4304753956 | | Federal | OW | APD |
| Three Rivers Federal 5-43-820 | 5 | 080S | 200E | 4304753957 | | Federal | OW | APD |
| Three Rivers Federal 5-42-820 | 5 | 080S | 200E | 4304753958 | | Federal | OW | APD |
| Three Rivers Federal 5-11-820 | 5 | 080S | 200E | 4304754204 | | Federal | OW | APD |
| Three Rivers Federal 5-21-820 | 5 | 080S | 200E | 4304754205 | | Federal | OW | APD |
| Three Rivers Federal 8-31-820 | 8 | 080S | 200E | 4304754211 | | Federal | OW | APD |
| Three Rivers Federal 8-41-820 | 8 | 080S | 200E | 4304754212 | | Federal | OW | APD |
| Three Rivers Federal 3-34-820 | 3 | 080S | 200E | 4304754213 | | Federal | OW | APD |
| Three Rivers Federal 3-44-820 | 3 | 080S | 200E | 4304754214 | | Federal | OW | APD |
| THREE RIVERS 32-34-720 | 32 | 070S | 200E | 4304752735 | 19249 | Fee | OW | DRL |
| THREE RIVERS FEDERAL 8-52-82( | 8 | 080S | 200E | 4304752770 | 19156 | Federal | OW | DRL |
| THREE RIVERS 4-14-820 | 5 | 080S | 200E | 4304752863 | 19183 | Fee | OW | DRL |
| THREE RIVERS FED 10-42-820 | 10 | 080S | 200E | 4304752949 | 19310 | Federal | OW | DRL |
| THREE RIVERS FED 3-11-820 | 34 | 070S | 200E | 4304752950 | 19184 | Federal | OW | DRL |
| Three Rivers 16-21-820 | 16 | 080S | 200E | 4304753229 | 19024 | State | OW | DRL |
| Three Rivers 16-22-820 | 16 | 080S | 200E | 4304753230 | 18961 | State | OW | DRL |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Three Rivers Federal 34-35-720 | 34 | 070S | 200E | 4304753282 | 19287 | Federal | OW | DRL |
| Three Rivers Federal 34-25-720 | 34 | 070S | 200E | 4304753283 | 19288 | Federal | OW | DRL |
| Three Rivers Federal 10-32-820 | 10 | 080S | 200E | 4304753415 | 19275 | Federal | OW | DRL |
| Three Rivers Federal 10-31-820 | 10 | 080S | 200E | 4304753437 | 19276 | Federal | OW | DRL |
| Three Rivers 16-34-820 | 16 | 080S | 200E | 4304753472 | 19278 | State | OW | DRL |
| Three Rivers 16-44-820 | 16 | 080S | 200E | 4304753473 | 19268 | State | OW | DRL |
| Three Rivers 16-11-820 | 16 | 080S | 200E | 4304753474 | 19262 | State | OW | DRL |
| Three Rivers 16-12-820 | 16 | 080S | 200E | 4304753475 | 19263 | State | OW | DRL |
| Three Rivers 16-32-820 | 16 | 080S | 200E | 4304753494 | 19185 | State | OW | DRL |
| Three Rivers 16-31-820 | 16 | 080S | 200E | 4304753495 | 19269 | State | OW | DRL |
| Three Rivers 16-33-820 | 16 | 080S | 200E | 4304753496 | 19161 | State | OW | DRL |
| THREE RIVERS FED 10-30-820 | 10 | 080S | 200E | 4304753555 | 19169 | Federal | OW | DRL |
| Three Rivers Federal 9-41-820 | 10 | 080S | 200E | 4304753556 | 19170 | Federal | OW | DRL |
| Three Rivers Federal 33-13-720 | 33 | 070S | 200E | 4304753723 | 19222 | Federal | OW | DRL |
| Three Rivers Federal 33-12-720 | 33 | 070S | 200E | 4304753724 | 19250 | Federal | OW | DRL |
| Three Rivers 32-3333-720 | 32 | 070S | 200E | 4304753950 | 19251 | Fee | OW | DRL |
| THREE RIVERS 36-11-720 | 36 | 070S | 200E | 4304751915 | 18355 | State | OW | P |
| THREE RIVERS 2-11-820 | 2 | 080S | 200E | 4304751936 | 18354 | State | OW | P |
| THREE RIVERS 34-31-720 | 34 | 070S | 200E | 4304752012 | 18326 | Fee | OW | P |
| THREE RIVERS 16-42-820 | 16 | 080S | 200E | 4304752056 | 18682 | State | OW | P |
| THREE RIVERS 16-43-820 | 16 | 080S | 200E | 4304752057 | 18683 | State | OW | P |
| THREE RIVERS 16-41-820 | 16 | 080S | 200E | 4304752110 | 18356 | State | OW | P |
| THREE RIVERS 2-51-820 | 2 | 080S | 200E | 4304752685 | 18941 | State | OW | P |
| THREE RIVERS 2-13-820 | 2 | 080S | 200E | 4304752687 | 19014 | State | OW | P |
| THREE RIVERS 2-23-820 | 2 | 080S | 200E | 4304752688 | 19015 | State | OW | P |
| THREE RIVERS 2-15-820 | 2 | 080S | 200E | 4304752689 | 18770 | State | OW | P |
| THREE RIVERS 36-31-720 | 36 | 070S | 200E | 4304752697 | 19086 | State | OW | P |
| THREE RIVERS 32-25-720 | 32 | 070S | 200E | 4304752718 | 19033 | Fee | OW | P |
| THREE RIVERS 36-23-720 | 36 | 070S | 200E | 4304752733 | 18769 | State | OW | P |
| THREE RIVERS 32-33-720 | 32 | 070S | 200E | 4304752734 | 19016 | Fee | OW | P |
| THREE RIVERS 32-15-720 | 32 | 070S | 200E | 4304752736 | 18767 | Fee | OW | P |
| THREE RIVERS 32-35-720 | 32 | 070S | 200E | 4304752737 | 18766 | Fee | OW | P |
| THREE RIVERS FEDERAL 8-53-820 | 8 | 080S | 200E | 4304752771 | 18992 | Federal | OW | P |
| THREE RIVERS FEDERAL 3-53-820 | 3 | 080S | 200E | 4304752820 | 19104 | Federal | OW | P |
| THREE RIVERS FEDERAL 3-32-820 | 3 | 080S | 200E | 4304752861 | 18942 | Federal | OW | P |
| THREE RIVERS FEDERAL 5-56-820 | 5 | 080S | 200E | 4304752862 | 18993 | Federal | OW | P |
| THREE RIVERS FED 4-31-820 | 4 | 080S | 200E | 4304752874 | 19023 | Federal | OW | P |
| THREE RIVERS 4-21-820 | 4 | 080S | 200E | 4304752875 | 19048 | Federal | OW | P |
| THREE RIVERS FED 34-23-720 | 34 | 070S | 200E | 4304752945 | 19049 | Federal | OW | P |
| THREE RIVERS FED 34-33-720 | 34 | 070S | 200E | 4304752947 | 19050 | Federal | OW | P |
| THREE RIVERS FED 10-41-820 | 10 | 080S | 200E | 4304752948 | 19137 | Federal | OW | P |
| THREE RIVERS FED 34-15-720 | 34 | 070S | 200E | 4304752965 | 18960 | Federal | OW | P |
| THREE RIVERS FED 35-32-720 | 35 | 070S | 200E | 4304753005 | 19138 | Federal | OW | P |
| Three Rivers 16-23-820 | 16 | 080S | 200E | 4304753231 | 19037 | State | OW | P |
| Three Rivers 16-24-820 | 16 | 080S | 200E | 4304753232 | 19038 | State | OW | P |
| Three Rivers 2-33-820 | 2 | 080S | 200E | 4304753273 | 18943 | State | OW | P |
| Three Rivers 4-33-820 | 4 | 080S | 200E | 4304753528 | 19167 | Fee | OW | P |
| Three Rivers Federal 33-14-720 | 33 | 070S | 200E | 4304753551 | 19107 | Federal | OW | P |
| Three Rivers Federal 4-32-820 | 4 | 080S | 200E | 4304753552 | 19168 | Federal | OW | P |
| Three Rivers Federal 33-24-720 | 33 | 070S | 200E | 4304753557 | 19108 | Federal | OW | P |
| Three Rivers 32-334-720 | 32 | 070S | 200E | 4304753710 | 19067 | Fee | OW | P |
| Three Rivers 5-31-820 | 32 | 070S | 200E | 4304753711 | 19068 | Fee | OW | P |
| Three Rivers Federal 33-11-720 | 32 | 070S | 200E | 4304753733 | 19109 | Federal | OW | P |
| Three Rivers 32-32-720 | 32 | 070S | 200E | 4304753734 | 19087 | Fee | OW | P |
| Three Rivers 32-333-720 | 32 | 070S | 200E | 4304753735 | 19088 | Fee | OW | P |

# Ultra Resources, Inc.

ULTRA PETROLEUM



December 13, 2013

Division of Oil, Gas, and Mining
1594 West North Temple
Salt Lake City, UT 84116
Attn: Rachel Medina

Re: Transfer of Operator
Three Rivers Project Area
Uintah County, Utah

Dear Ms. Medina:

Pursuant to Purchase and Sale Agreement dated effective October 1, 2013 Ultra Resources, Inc. ("Ultra") assumed the operations of Axia Energy, LLC ("Axia") in the Three Rivers Area, Uintah County, Utah.

Accordingly, Ultra is submitting the following documents for your review and approval:

1) Request to Transfer Application or Permit to Drill for New, APD Approved & Drilled Wells
2) Request to Transfer Application or Permit to Drill – APD Pending
3) Two Completed Sundry Notice and Reports on Wells Form 9 regarding Change of Operator executed by Ultra Resources, Inc. and Axia Energy, LLC
4) Statewide Surety Bond in the amount of $120,000

As to all wells located on Fee Surface there are surface agreements in place. Ultra presently does not anticipate making any change in the drilling plans submitted by Axia.

Ultra has also submitted a Statewide Bond to the Bureau of Land Management. As soon as we receive the acknowledgement and approval by the BLM we will forward same to you for your files. A copy of our transfer letter and bond is attached for your reference.

Should you need any further information at this time, please call me direct at (303) 645-9865 or email msbalakas@ultrapetroleum.com.

Sincerely,

Mary Sharon Balakas, CPL
Director of Land

cc: Cindy Turner, Axia Energy, LLC

304 Inverness Way South, Suite 295, Englewood, CO 80112
Telephone 303-708-9740 Facsimile 303-708-9748

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Well List

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: See Attached Well List

2. NAME OF OPERATOR: Ultra Resources, Inc. N4045

9. API NUMBER:

3. ADDRESS OF OPERATOR: 304 Inverness Way South CITY Englewood STATE CO ZIP 80112

PHONE NUMBER: (303) 645-9810

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☑ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: 10/1/2013 | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☑ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☐ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☐ OTHER: |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EFFECTIVE DATE: October 1, 2013
FROM:
Axia Energy, LLC
1430 Larimer Street
Suite 400
Denver, CO 80202
Bond Number: Blanket Statewide UT State/Fee Bond LPM9046682
TO:
Ultra Resources, Inc.
304 Inverness Way South
Englewood, CO 80112
Bond Number: DOGM:022046398
BLM 022046400

RECEIVED
DEC 16 2013
DIV. OF OIL, GAS & MINING

Ultra Resources, Inc. will be responsible under the terms and conditions of the leases/wells for the operations conducted on the leased lands.

NAME (PLEASE PRINT) Mary Sharon Balakas TITLE Attorney in Fact

SIGNATURE Mary Sharon Balakas DATE 12/11/13

APPROVED

JAN 16 2013

DIV. OIL GAS & MINING

BY: Rachel Medina

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

ATTACHMENT TO FORM 9 CHANGE OF OPERATOR
AXIA ENERGY TO ULTRA RESOURCES EFFECTIVE 10-01-2013

| State Well Name List downloaded 12-10-13 | Axia Well Name (for database sort and consistency) | Sec | TWN | RNG | API Number | Entity | Mineral Lease | Surface Lease | Well Type | State Well Status | Actual Status @ 12/12/13 | Submitted | Date Apprvd DOGM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THREE RIVERS 2-11-820 | Three Rivers 02-11-820 | 2 | 080S | 200E | 4304751936 | 18354 | State | State | OW | P | P | | |
| THREE RIVERS 2-13-820 | Three Rivers 02-13-820 | 2 | 080S | 200E | 4304752687 | 19014 | State | State | OW | DRL | P | | 08/27/12 |
| THREE RIVERS 2-15-820 | Three Rivers 02-15-820 | 2 | 080S | 200E | 4304752689 | 18770 | State | State | OW | P | P | | |
| Three Rivers 2-21-820 | Three Rivers 02-21-820 | 2 | 080S | 200E | 4304753947 | | State | State | OW | APD | APRVD | | 10/15/13 |
| Three Rivers 2-223-820 | Three Rivers 02-223-820 | 2 | 080S | 200E | 4304753946 | | State | State | OW | APD | APRVD | | 10/15/13 |
| Three Rivers 2-22-820 | Three Rivers 02-22-820 | 2 | 080S | 200E | 4304753948 | | State | State | OW | APD | APRVD | | 10/15/13 |
| THREE RIVERS 2-23-820 | Three Rivers 02-23-820 | 2 | 080S | 200E | 4304752688 | 19015 | State | State | OW | DRL | P | | 08/27/12 |
| Three Rivers 2-24-820 | Three Rivers 02-24-820 | 2 | 080S | 200E | 4304753945 | | State | State | OW | APD | APRVD | | 10/15/13 |
| THREE RIVERS 2-25-820 | Three Rivers 02-25-820 | 2 | 080S | 200E | 4304752690 | | State | State | OW | APD | APRVD | | 08/27/12 |
| Three Rivers 2-32-820 | Three Rivers 02-32-820 | 2 | 080S | 200E | 4304753274 | | State | State | OW | APD | APRVD | | 12/11/12 |
| Three Rivers 2-33-820 | Three Rivers 02-33-820 | 2 | 080S | 200E | 4304753273 | 18943 | State | State | OW | P | P | | |
| THREE RIVERS 2-41-820 | Three Rivers 02-41-820 | 2 | 080S | 200E | 4304752686 | | State | State | OW | APD | APRVD | | 08/27/12 |
| THREE RIVERS 2-51-820 | Three Rivers 02-51-820 | 2 | 080S | 200E | 4304752685 | 18941 | State | State | OW | P | P | | |
| Three Rivers 4-13-820 | Three Rivers 04-13-820 | 5 | 080S | 200E | 4304753956 | | Fee | Federal | OW | APD | PERPEND | 08/19/13 | |
| THREE RIVERS 4-14-820 | Three Rivers 04-14-820 | 5 | 080S | 200E | 4304752863 | 19183 | Fee | Federal | OW | DRL | P | | |
| Three Rivers 4-33-820 | Three Rivers 04-33-820 | 4 | 080S | 200E | 4304753528 | 19167 | Fee | Fee | OW | DRL | P | | |
| Three Rivers 5-31-820 | Three Rivers 05-31-820 | 32 | 070S | 200E | 4304753711 | 19068 | Fee | Fee | OW | DRL | P | | |
| Three Rivers 7-12-821 | Three Rivers 07-12-821 | 7 | 080S | 210E | 4304753562 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | |
| Three Rivers 7-21-821 | Three Rivers 07-21-821 | 7 | 080S | 210E | 4304753560 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | |
| Three Rivers 7-22-821 | Three Rivers 07-22-821 | 7 | 080S | 210E | 4304753561 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | |
| Three Rivers 7-23-821 | Three Rivers 07-23-821 | 7 | 080S | 210E | 4304753559 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | |
| Three Rivers 7-34-821 | Three Rivers 07-34-821 | 7 | 080S | 210E | 4304753558 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | |
| Three Rivers 16-11-820 | Three Rivers 16-11-820 | 16 | 080S | 200E | 4304753474 | 19262 | State | State | OW | DRL | SCS | | 03/12/13 |
| Three Rivers 16-12-820 | Three Rivers 16-12-820 | 16 | 080S | 200E | 4304753475 | 19263 | State | State | OW | DRL | SCS | | 03/12/13 |
| Three Rivers 16-21-820 | Three Rivers 16-21-820 | 16 | 080S | 200E | 4304753229 | 19024 | State | State | OW | DRL | P | | 12/11/12 |
| Three Rivers 16-22-820 | Three Rivers 16-22-820 | 16 | 080S | 200E | 4304753230 | 18961 | State | State | OW | DRL | P | | 12/11/12 |
| Three Rivers 16-23-820 | Three Rivers 16-23-820 | 16 | 080S | 200E | 4304753231 | 19037 | State | State | OW | DRL | P | | 12/11/12 |
| Three Rivers 16-24-820 | Three Rivers 16-24-820 | 16 | 080S | 200E | 4304753232 | 19038 | State | State | OW | P | P | | |
| Three Rivers 16-31-820 | Three Rivers 16-31-820 | 16 | 080S | 200E | 4304753495 | | State | State | OW | APD | CCS | | 03/12/13 |
| Three Rivers 16-32-820 | Three Rivers 16-32-820 | 16 | 080S | 200E | 4304753494 | 19185 | State | State | OW | DRL | WOC | | 03/12/13 |
| Three Rivers 16-33-820 | Three Rivers 16-33-820 | 16 | 080S | 200E | 4304753496 | 19161 | State | State | OW | DRL | WOC | | 03/12/13 |
| Three Rivers 16-34-820 | Three Rivers 16-34-820 | 16 | 080S | 200E | 4304753472 | | State | State | OW | APD | CCS | | 03/12/13 |
| THREE RIVERS 16-41-820 | Three Rivers 16-41-820 | 16 | 080S | 200E | 4304752110 | 18356 | State | State | OW | P | P | | |
| THREE RIVERS 16-42-820 | Three Rivers 16-42-820 | 16 | 080S | 200E | 4304752056 | 18682 | State | State | OW | P | P | | |
| THREE RIVERS 16-43-820 | Three Rivers 16-43-820 | 16 | 080S | 200E | 4304752057 | 18683 | State | State | OW | P | P | | |
| Three Rivers 16-44-820 | Three Rivers 16-44-820 | 16 | 080S | 200E | 4304753473 | | State | State | OW | APD | CCS | | 03/12/13 |
| Three Rivers 18-21-821 | Three Rivers 18-21-821 | 18 | 080S | 210E | 4304753276 | | Fee | Fee | OW | APD | PERPEND | 12/17/12 | |
| Three Rivers 18-22-821 | Three Rivers 18-22-821 | 18 | 080S | 210E | 4304753620 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | |
| Three Rivers 18-31-821 | Three Rivers 18-31-821 | 18 | 080S | 210E | 4304753277 | | Fee | Fee | OW | APD | PERPEND | 12/19/12 | |
| Three Rivers 18-32-821 | Three Rivers 18-32-821 | 18 | 080S | 210E | 4304753621 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | |
| Three Rivers 27-34-720 | Three Rivers 27-34-720 | 34 | 070S | 200E | 4304753278 | | Fee | Fee | OW | APD | PERPEND | 12/19/12 | |
| THREE RIVERS 32-15-720 | Three Rivers 32-15-720 | 32 | 070S | 200E | 4304752736 | 18767 | Fee | Fee | OW | P | P | | |
| THREE RIVERS 32-25-720 | Three Rivers 32-25-720 | 32 | 070S | 200E | 4304752718 | 19033 | Fee | Fee | OW | P | P | | |
| Three Rivers 32-32-720 | Three Rivers 32-32-720 | 32 | 070S | 200E | 4304753734 | 19087 | Fee | Fee | OW | DRL | P | | 06/12/13 |
| Three Rivers 32-3333-720 | Three Rivers 32-3333-720 | 32 | 070S | 200E | 4304753950 | 19251 | Fee | Fee | OW | DRL | SCS | | 10/15/13 |
| Three Rivers 32-333-720 | Three Rivers 32-333-720 | 32 | 070S | 200E | 4304753735 | 19088 | Fee | Fee | OW | DRL | P | | 06/12/13 |
| Three Rivers 32-334-720 | Three Rivers 32-334-720 | 32 | 070S | 200E | 4304753710 | 19067 | Fee | Fee | OW | DRL | P | | 05/22/13 |
| THREE RIVERS 32-33-720 | Three Rivers 32-33-720 | 32 | 070S | 200E | 4304752734 | 19016 | Fee | Fee | OW | DRL | P | | 08/29/12 |
| THREE RIVERS 32-34-720 | Three Rivers 32-34-720 | 32 | 070S | 200E | 4304752735 | 19249 | Fee | Fee | OW | DRL | DRLG | | 08/29/12 |
| THREE RIVERS 32-35-720 | Three Rivers 32-35-720 | 32 | 070S | 200E | 4304752737 | 18766 | Fee | Fee | OW | P | P | | |
| Three Rivers 32-42-720 | Three Rivers 32-42-720 | 32 | 070S | 200E | 4304753949 | | Fee | Fee | OW | APD | APRVD | | 10/15/13 |
| THREE RIVERS 34-31-720 | Three Rivers 34-31-720 | 34 | 070S | 200E | 4304752012 | 18326 | Fee | Fee | OW | P | P | | |
| Three Rivers 34-31T-720 | Three Rivers 34-31T-720 | 34 | 070S | 200E | 4304753281 | | Fee | Fee | OW | APD | APRVD | | 12/11/12 |
| THREE RIVERS 36-11-720 | Three Rivers 36-11-720 | 36 | 070S | 200E | 4304751915 | 18355 | State | State | OW | P | P | | |
| THREE RIVERS 36-13-720 | Three Rivers 36-13-720 | 36 | 070S | 200E | 4304752699 | | State | State | OW | APD | APRVD | | 08/29/12 |
| THREE RIVERS 36-21-720 | Three Rivers 36-21-720 | 36 | 070S | 200E | 4304752698 | | State | State | OW | APD | APRVD | | 08/29/12 |
| THREE RIVERS 36-23-720 | Three Rivers 36-23-720 | 36 | 070S | 200E | 4304752733 | 18769 | State | State | OW | P | P | | |
| THREE RIVERS 36-31-720 | Three Rivers 36-31-720 | 36 | 070S | 200E | 4304752697 | 19086 | State | State | OW | DRL | P | | 08/29/12 |
| Three Rivers D | Three Rivers D | 16 | 080S | 200E | 4304753702 | | State | State | WD | APD | APRVD | | 07/15/13 |
| THREE RIVERS FED 3-11-820 | Three Rivers Fed 03-11-820 | 34 | 070S | 200E | 4304752950 | 19184 | Federal | Fee | OW | DRL | WOC | | 02/22/13 |
| Three Rivers Federal 3-12-820 | Three Rivers Fed 03-12-820 | 4 | 080S | 200E | 4304753914 | | Federal | Federal | OW | APD | APRVD | | 08/01/13 |
| Three Rivers Federal 3-13-820 | Three Rivers Fed 03-13-820 | 3 | 080S | 200E | 4304753951 | | Federal | Federal | OW | APD | PERPEND | 08/12/13 | |
| Three Rivers Federal 3-14-820 | Three Rivers Fed 03-14-820 | 3 | 080S | 200E | 4304753952 | | Federal | Federal | OW | APD | PERPEND | 08/12/13 | |
| Three Rivers Federal 3-23-820 | Three Rivers Fed 03-23-820 | 3 | 080S | 200E | 4304753953 | | Federal | Federal | OW | APD | PERPEND | 08/12/13 | |
| Three Rivers Federal 3-24-820 | Three Rivers Fed 03-24-820 | 3 | 080S | 200E | 4304753954 | | Federal | Federal | OW | APD | PERPEND | 08/12/13 | |
| THREE RIVERS FEDERAL 3-32-820 | Three Rivers Fed 03-32-820 | 3 | 080S | 200E | 4304752861 | 18942 | Federal | Federal | OW | P | P | | |
| THREE RIVERS FEDERAL 3-33-820 | Three Rivers Fed 03-33-820 | 3 | 080S | 200E | 4304752864 | | Federal | Federal | OW | APD | APRVD | | 12/24/12 |
| THREE RIVERS FEDERAL 3-53-820 | Three Rivers Fed 03-53-820 | 3 | 080S | 200E | 4304752820 | 19104 | Federal | Federal | OW | DRL | P | | 12/24/12 |
| THREE RIVERS FEDERAL 3-54-820 | Three Rivers Fed 03-54-820 | 3 | 080S | 200E | 4304752860 | | Federal | Federal | OW | APD | APRVD | | 12/24/12 |

ATTACHMENT TO FORM 9 CHANGE OF OPERATOR
AXIA ENERGY TO ULTRA RESOURCES EFFECTIVE 10-01-2013

| State Well Name List downloaded 12-10-13 | Axia Well Name (for database sort and consistency) | Sec | TWN | RNG | API Number | Entity | Mineral Lease | Surface Lease | Well Type | State Well Status | Actual Status @ 12/12/13 | Submitted | Date Apprvd DOGM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THREE RIVERS 4-21-820 | Three Rivers Fed 04-21-820 | 4 | 080S | 200E | 4304752875 | 19048 | Federal | Fee | OW | DRL | P | | 02/22/13 |
| THREE RIVERS FED 4-31-820 | Three Rivers Fed 04-31-820 | 4 | 080S | 200E | 4304752874 | 19023 | Federal | Fee | OW | DRL | P | | 02/22/13 |
| Three Rivers Federal 4-32-820 | Three Rivers Fed 04-32-820 | 4 | 080S | 200E | 4304753552 | 19168 | Federal | Fee | OW | DRL | P | | 08/26/13 |
| Three Rivers Federal 4-41-820 | Three Rivers Fed 04-41-820 | 4 | 080S | 200E | 4304753911 | | Federal | Federal | OW | APD | APRVD | | 08/01/13 |
| Three Rivers Federal 4-42-820 | Three Rivers Fed 04-42-820 | 4 | 080S | 200E | 4304753913 | | Federal | Federal | OW | APD | APRVD | | 08/01/13 |
| Three Rivers Federal 5-11-820 | Three Rivers Fed 05-11-820 | 5 | 080S | 200E | 4304754204 | | Federal | Federal | OW | NEW | PERPEND | 12/03/13 | |
| Three Rivers Federal 5-21-820 | Three Rivers Fed 05-21-820 | 5 | 080S | 200E | 4304754205 | | Federal | Federal | OW | NEW | PERPEND | 12/03/13 | |
| Three Rivers Federal 5-42-820 | Three Rivers Fed 05-42-820 | 5 | 080S | 200E | 4304753958 | | Federal | Federal | OW | APD | PERPEND | 08/19/13 | |
| Three Rivers Federal 5-43-820 | Three Rivers Fed 05-43-820 | 5 | 080S | 200E | 4304753957 | | Federal | Federal | OW | APD | PERPEND | 08/19/13 | |
| THREE RIVERS FEDERAL 5-56-820 | Three Rivers Fed 05-56-820 | 5 | 080S | 200E | 4304752862 | 18993 | Federal | Federal | OW | P | P | | |
| THREE RIVERS FEDERAL 8-52-820 | Three Rivers Fed 08-52-820 | 8 | 080S | 200E | 4304752770 | 19156 | Federal | Federal | OW | DRL | P | | 02/22/13 |
| THREE RIVERS FEDERAL 8-53-820 | Three Rivers Fed 08-53-820 | 8 | 080S | 200E | 4304752771 | 18992 | Federal | Federal | OW | P | P | | |
| Three Rivers Federal 9-41-820 | Three Rivers Fed 09-41-820 | 10 | 080S | 200E | 4304753556 | 19170 | Federal | Federal | OW | DRL | P | | 08/20/13 |
| THREE RIVERS FED 10-30-820 | Three Rivers Fed 10-30-820 | 10 | 080S | 200E | 4304753555 | 19169 | Federal | Federal | OW | DRL | P | | 08/20/13 |
| Three Rivers Federal 10-31-820 | Three Rivers Fed 10-31-820 | 10 | 080S | 200E | 4304753437 | | Federal | Federal | OW | APD | CCS | | 08/21/13 |
| Three Rivers Federal 10-32-820 | Three Rivers Fed 10-32-820 | 10 | 080S | 200E | 4304753415 | | Federal | Federal | OW | APD | CCS | | 08/21/13 |
| THREE RIVERS FED 10-41-820 | Three Rivers Fed 10-41-820 | 10 | 080S | 200E | 4304752948 | 19137 | Federal | Federal | OW | DRL | P | | 02/22/13 |
| THREE RIVERS FED 10-42-820 | Three Rivers Fed 10-42-820 | 10 | 080S | 200E | 4304752949 | | Federal | Federal | OW | APD | APRVD | | 02/22/13 |
| Three Rivers Federal 33-11-720 | Three Rivers Fed 33-11-720 | 32 | 070S | 200E | 4304753733 | 19109 | Federal | Fee | OW | DRL | P | | 07/17/13 |
| Three Rivers Federal 33-12-720 | Three Rivers Fed 33-12-720 | 33 | 070S | 200E | 4304753724 | 19250 | Federal | Fee | OW | DRL | WOC | | 09/16/13 |
| Three Rivers Federal 33-13-720 | Three Rivers Fed 33-13-720 | 33 | 070S | 200E | 4304753723 | 19222 | Federal | Fee | OW | DRL | WOC | | 09/16/13 |
| Three Rivers Federal 33-14-720 | Three Rivers Fed 33-14-720 | 33 | 070S | 200E | 4304753551 | 19107 | Federal | Fee | OW | DRL | P | | 09/16/13 |
| Three Rivers Federal 33-24-720 | Three Rivers Fed 33-24-720 | 33 | 070S | 200E | 4304753557 | 19108 | Federal | Fee | OW | DRL | P | | 07/09/13 |
| THREE RIVERS FED 34-15-720 | Three Rivers Fed 34-15-720 | 34 | 070S | 200E | 4304752965 | 18960 | Federal | Fee | OW | P | P | | |
| THREE RIVERS FED 34-23-720 | Three Rivers Fed 34-23-720 | 34 | 070S | 200E | 4304752945 | 19049 | Federal | Fee | OW | DRL | P | | 02/12/13 |
| Three Rivers Federal 34-25-720 | Three Rivers Fed 34-25-720 | 34 | 070S | 200E | 4304753283 | | Federal | Fee | OW | APD | APRVD | | 06/10/13 |
| THREE RIVERS FED 34-33-720 | Three Rivers Fed 34-33-720 | 34 | 070S | 200E | 4304752947 | 19050 | Federal | Fee | OW | DRL | P | | 02/22/13 |
| Three Rivers Federal 34-35-720 | Three Rivers Fed 34-35-720 | 34 | 070S | 200E | 4304753282 | | Federal | Fee | OW | APD | APRVD | | 06/10/13 |
| Three Rivers Federal 34-42-720 | Three Rivers Fed 34-42-720 | 35 | 070S | 200E | 4304753915 | | Federal | Federal | OW | APD | APRVD | | 08/01/13 |
| Three Rivers Federal 34-43-720 | Three Rivers Fed 34-43-720 | 35 | 070S | 200E | 4304753916 | | Federal | Federal | OW | APD | APRVD | | 08/01/13 |
| Three Rivers Federal 35-11-720 | Three Rivers Fed 35-11-720 | 35 | 070S | 200E | 4304753944 | | Federal | Federal | OW | APD | PERPEND | 07/25/13 | |
| Three Rivers Federal 35-12-720 | Three Rivers Fed 35-12-720 | 35 | 070S | 200E | 4304753917 | | Federal | Federal | OW | APD | APRVD | | 08/01/13 |
| Three Rivers Federal 35-13-720 | Three Rivers Fed 35-13-720 | 35 | 070S | 200E | 4304753554 | | Federal | Federal | OW | APD | APRVD | | 08/20/13 |
| Three Rivers Federal 35-14-720 | Three Rivers Fed 35-14-720 | 35 | 070S | 200E | 4304753553 | | Federal | Federal | OW | APD | APRVD | | 08/22/13 |
| Three Rivers Federal 35-21-720 | Three Rivers Fed 35-21-720 | 35 | 070S | 200E | 4304753943 | | Federal | Federal | OW | APD | PERPEND | 07/25/13 | |
| THREE RIVERS FED 35-32-720 | Three Rivers Fed 35-32-720 | 35 | 070S | 200E | 4304753005 | 19138 | Federal | Federal | OW | DRL | APRVD | | 02/22/13 |
| THREE RIVERS FED 35-34-720 | Three Rivers Fed 35-34-720 | 35 | 070S | 200E | 4304753006 | | Federal | Federal | OW | APD | APRVD | | 02/22/13 |
| THREE RIVERS FED 35-42-720 | Three Rivers Fed 35-42-720 | 35 | 070S | 200E | 4304753007 | | Federal | Federal | OW | APD | APRVD | | 02/22/13 |
| Three Rivers Federal 35-43-720 | Three Rivers Fed 35-43-720 | 35 | 070S | 200E | 4304753918 | | Federal | Federal | OW | APD | APRVD | | 08/01/13 |
| Three Rivers Federal 35-442-720 | Three Rivers Fed 35-442-720 | 35 | 070S | 200E | 4304753919 | | Federal | Federal | OW | APD | APRVD | | 08/01/13 |
| THREE RIVERS FED 35-44-720 | Three Rivers Fed 35-44-720 | 35 | 070S | 200E | 4304753008 | | Federal | Federal | OW | APD | APRVD | | 02/22/13 |
| Three Rivers Fed 03-34-820 | Three Rivers Fed 03-34-820 | 3 | 080S | 200E | | | Federal | | | NA | SUB | 12/10/13 | |
| Three Rivers Fed 03-44-820 | Three Rivers Fed 03-44-820 | 3 | 080S | 200E | | | Federal | | | NA | SUB | 12/10/13 | |
| Three Rivers Fed 08-31-820 | Three Rivers Fed 08-31-820 | 8 | 080S | 200E | | | Federal | | | NA | SUB | 12/07/13 | |
| Three Rivers Fed 08-41-820 | Three Rivers Fed 08-41-820 | 9 | 080S | 200E | | | Federal | | | NA | SUB | 12/07/13 | |

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Well List

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: See Attached Well List

2. NAME OF OPERATOR: Axia Energy, LLC N3765

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1430 Larimer Street, Ste 400 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (720) 746-5200

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☑ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: 10/1/2013 | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☑ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☐ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☐ OTHER: |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EFFECTIVE DATE: October 1, 2013
FROM:
Axia Energy, LLC
1430 Larimer Street
Suite 400
Denver, CO 80202
Bond Number: Blanket Statewide UT State/Fee Bond LPM9046682
TO:
Ultra Resources, Inc.
304 Inverness Way South
Englewood, CO 80112
Bond Number: DOGM 022046398
BLM 022041600

RECEIVED
DEC 16 2013
DIV. OF OIL, GAS & MINING

Ultra Resources, Inc. will be responsible under the terms and conditions of the leases/wells for the operations conducted on the leased lands.

NAME (PLEASE PRINT) Daniel G. Blanchard TITLE President

SIGNATURE D G Blanchard DATE 12/11/13

(This space for State use only)

APPROVED

JAN 16 2013

DIV. OIL GAS & MINING

BY: Rachel Medina

(5/2000) (See Instructions on Reverse Side)

ATTACHMENT TO FORM 9 CHANGE OF OPERATOR

AXIA ENERGY TO ULTRA RESOURCES EFFECTIVE 10-01-2013

| State Well Name List downloaded 12-10-13 | Axia Well Name (for database sort and consistency) | Sec | TWN | RNG | API Number | Entity | Mineral Lease | Surface Lease | Well Type | State Well Status | Actual Status @ 12/12/13 | Submitted | Date Apprvd DOGM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THREE RIVERS 2-11-820 | Three Rivers 02-11-820 | 2 | 080S | 200E | 4304751936 | 18354 | State | State | OW | P | P | 1 | |
| THREE RIVERS 2-13-820 | Three Rivers 02-13-820 | 2 | 080S | 200E | 4304752687 | 19014 | State | State | OW | DRL | P | 2 | 08/27/12 |
| THREE RIVERS 2-15-820 | Three Rivers 02-15-820 | 2 | 080S | 200E | 4304752689 | 18770 | State | State | OW | P | P | 3 | |
| Three Rivers 2-21-820 | Three Rivers 02-21-820 | 2 | 080S | 200E | 4304753947 | | State | State | OW | APD | APRVD | 4 | 10/15/13 |
| Three Rivers 2-223-820 | Three Rivers 02-223-820 | 2 | 080S | 200E | 4304753946 | | State | State | OW | APD | APRVD | 5 | 10/15/13 |
| Three Rivers 2-22-820 | Three Rivers 02-22-820 | 2 | 080S | 200E | 4304753948 | | State | State | OW | APD | APRVD | 6 | 10/15/13 |
| THREE RIVERS 2-23-820 | Three Rivers 02-23-820 | 2 | 080S | 200E | 4304752688 | 19015 | State | State | OW | DRL | P | 7 | 08/27/12 |
| Three Rivers 2-24-820 | Three Rivers 02-24-820 | 2 | 080S | 200E | 4304753945 | | State | State | OW | APD | APRVD | 8 | 10/15/13 |
| THREE RIVERS 2-25-820 | Three Rivers 02-25-820 | 2 | 080S | 200E | 4304752690 | | State | State | OW | APD | APRVD | 9 | 08/27/12 |
| Three Rivers 2-32-820 | Three Rivers 02-32-820 | 2 | 080S | 200E | 4304753274 | | State | State | OW | APD | APRVD | 10 | 12/11/12 |
| Three Rivers 2-33-820 | Three Rivers 02-33-820 | 2 | 080S | 200E | 4304753273 | 18943 | State | State | OW | P | P | 1 | |
| THREE RIVERS 2-41-820 | Three Rivers 02-41-820 | 2 | 080S | 200E | 4304752686 | | State | State | OW | APD | APRVD | 2 | 08/27/12 |
| THREE RIVERS 2-51-820 | Three Rivers 02-51-820 | 2 | 080S | 200E | 4304752685 | 18941 | State | State | OW | P | P | 3 | |
| Three Rivers 4-13-820 | Three Rivers 04-13-820 | 5 | 080S | 200E | 4304753956 | | Fee | Federal | OW | APD | PERPEND | 08/19/13 | |
| THREE RIVERS 4-14-820 | Three Rivers 04-14-820 | 5 | 080S | 200E | 4304752863 | 19183 | Fee | Federal | OW | DRL | P | 5 | |
| Three Rivers 4-33-820 | Three Rivers 04-33-820 | 4 | 080S | 200E | 4304753528 | 19167 | Fee | Fee | OW | DRL | P | 6 | |
| Three Rivers 5-31-820 | Three Rivers 05-31-820 | 32 | 070S | 200E | 4304753711 | 19068 | Fee | Fee | OW | DRL | P | 7 | |
| Three Rivers 7-12-821 | Three Rivers 07-12-821 | 7 | 080S | 210E | 4304753562 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | 8 |
| Three Rivers 7-21-821 | Three Rivers 07-21-821 | 7 | 080S | 210E | 4304753560 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | 9 |
| Three Rivers 7-22-821 | Three Rivers 07-22-821 | 7 | 080S | 210E | 4304753561 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | 20 |
| Three Rivers 7-23-821 | Three Rivers 07-23-821 | 7 | 080S | 210E | 4304753559 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | 1 |
| Three Rivers 7-34-821 | Three Rivers 07-34-821 | 7 | 080S | 210E | 4304753558 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | 2 |
| Three Rivers 16-11-820 | Three Rivers 16-11-820 | 16 | 080S | 200E | 4304753474 | 19262 | State | State | OW | DRL | SCS | 3 | 03/12/13 |
| Three Rivers 16-12-820 | Three Rivers 16-12-820 | 16 | 080S | 200E | 4304753475 | 19263 | State | State | OW | DRL | SCS | 4 | 03/12/13 |
| Three Rivers 16-21-820 | Three Rivers 16-21-820 | 16 | 080S | 200E | 4304753229 | 19024 | State | State | OW | DRL | P | 5 | 12/11/12 |
| Three Rivers 16-22-820 | Three Rivers 16-22-820 | 16 | 080S | 200E | 4304753230 | 18961 | State | State | OW | DRL | P | 6 | 12/11/12 |
| Three Rivers 16-23-820 | Three Rivers 16-23-820 | 16 | 080S | 200E | 4304753231 | 19037 | State | State | OW | DRL | P | 7 | 12/11/12 |
| Three Rivers 16-24-820 | Three Rivers 16-24-820 | 16 | 080S | 200E | 4304753232 | 19038 | State | State | OW | P | P | 8 | |
| Three Rivers 16-31-820 | Three Rivers 16-31-820 | 16 | 080S | 200E | 4304753495 | | State | State | OW | APD | CCS | 9 | 03/12/13 |
| Three Rivers 16-32-820 | Three Rivers 16-32-820 | 16 | 080S | 200E | 4304753494 | 19185 | State | State | OW | DRL | WOC | 30 | 03/12/13 |
| Three Rivers 16-33-820 | Three Rivers 16-33-820 | 16 | 080S | 200E | 4304753496 | 19161 | State | State | OW | DRL | WOC | 1 | 03/12/13 |
| Three Rivers 16-34-820 | Three Rivers 16-34-820 | 16 | 080S | 200E | 4304753472 | | State | State | OW | APD | CCS | 2 | 03/12/13 |
| THREE RIVERS 16-41-820 | Three Rivers 16-41-820 | 16 | 080S | 200E | 4304752110 | 18356 | State | State | OW | P | P | 3 | |
| THREE RIVERS 16-42-820 | Three Rivers 16-42-820 | 16 | 080S | 200E | 4304752056 | 18682 | State | State | OW | P | P | 4 | |
| THREE RIVERS 16-43-820 | Three Rivers 16-43-820 | 16 | 080S | 200E | 4304752057 | 18683 | State | State | OW | P | P | 5 | |
| Three Rivers 16-44-820 | Three Rivers 16-44-820 | 16 | 080S | 200E | 4304753473 | | State | State | OW | APD | CCS | 6 | 03/12/13 |
| Three Rivers 18-21-821 | Three Rivers 18-21-821 | 18 | 080S | 210E | 4304753276 | | Fee | Fee | OW | APD | PERPEND | 12/17/12 | 7 |
| Three Rivers 18-22-821 | Three Rivers 18-22-821 | 18 | 080S | 210E | 4304753620 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | 8 |
| Three Rivers 18-31-821 | Three Rivers 18-31-821 | 18 | 080S | 210E | 4304753277 | | Fee | Fee | OW | APD | PERPEND | 12/19/12 | 9 |
| Three Rivers 18-32-821 | Three Rivers 18-32-821 | 18 | 080S | 210E | 4304753621 | | Fee | Fee | OW | APD | PERPEND | 04/15/13 | 40 |
| Three Rivers 27-34-720 | Three Rivers 27-34-720 | 34 | 070S | 200E | 4304753278 | | Fee | Fee | OW | APD | PERPEND | 12/19/12 | 1 |
| THREE RIVERS 32-15-720 | Three Rivers 32-15-720 | 32 | 070S | 200E | 4304752736 | 18767 | Fee | Fee | OW | P | P | 2 | |
| THREE RIVERS 32-25-720 | Three Rivers 32-25-720 | 32 | 070S | 200E | 4304752718 | 19033 | Fee | Fee | OW | P | P | 3 | |
| Three Rivers 32-32-720 | Three Rivers 32-32-720 | 32 | 070S | 200E | 4304753734 | 19087 | Fee | Fee | OW | DRL | P | 4 | 06/12/13 |
| Three Rivers 32-3333-720 | Three Rivers 32-3333-720 | 32 | 070S | 200E | 4304753950 | 19251 | Fee | Fee | OW | DRL | SCS | 5 | 10/15/13 |
| Three Rivers 32-333-720 | Three Rivers 32-333-720 | 32 | 070S | 200E | 4304753735 | 19088 | Fee | Fee | OW | DRL | P | 6 | 06/12/13 |
| Three Rivers 32-334-720 | Three Rivers 32-334-720 | 32 | 070S | 200E | 4304753710 | 19067 | Fee | Fee | OW | DRL | P | 7 | 05/22/13 |
| THREE RIVERS 32-33-720 | Three Rivers 32-33-720 | 32 | 070S | 200E | 4304752734 | 19016 | Fee | Fee | OW | DRL | P | 8 | 08/29/12 |
| THREE RIVERS 32-34-720 | Three Rivers 32-34-720 | 32 | 070S | 200E | 4304752735 | 19249 | Fee | Fee | OW | DRL | DRLG | 9 | 08/29/12 |
| THREE RIVERS 32-35-720 | Three Rivers 32-35-720 | 32 | 070S | 200E | 4304752737 | 18766 | Fee | Fee | OW | P | P | 50 | |
| Three Rivers 32-42-720 | Three Rivers 32-42-720 | 32 | 070S | 200E | 4304753949 | | Fee | Fee | OW | APD | APRVD | 1 | 10/15/13 |
| THREE RIVERS 34-31-720 | Three Rivers 34-31-720 | 34 | 070S | 200E | 4304752012 | 18326 | Fee | Fee | OW | P | P | 2 | |
| Three Rivers 34-31T-720 | Three Rivers 34-31T-720 | 34 | 070S | 200E | 4304753281 | | Fee | Fee | OW | APD | APRVD | 3 | 12/11/12 |
| THREE RIVERS 36-11-720 | Three Rivers 36-11-720 | 36 | 070S | 200E | 4304751915 | 18355 | State | State | OW | P | P | 4 | |
| THREE RIVERS 36-13-720 | Three Rivers 36-13-720 | 36 | 070S | 200E | 4304752699 | | State | State | OW | APD | APRVD | 5 | 08/29/12 |
| THREE RIVERS 36-21-720 | Three Rivers 36-21-720 | 36 | 070S | 200E | 4304752698 | | State | State | OW | APD | APRVD | 6 | 08/29/12 |
| THREE RIVERS 36-23-720 | Three Rivers 36-23-720 | 36 | 070S | 200E | 4304752733 | 18769 | State | State | OW | P | P | 7 | |
| THREE RIVERS 36-31-720 | Three Rivers 36-31-720 | 36 | 070S | 200E | 4304752697 | 19086 | State | State | OW | DRL | P | 8 | 08/29/12 |
| Three Rivers D | Three Rivers D | 16 | 080S | 200E | 4304753702 | | State | State | WD | APD | APRVD | 9 | 07/15/13 |
| THREE RIVERS FED 3-11-820 | Three Rivers Fed 03-11-820 | 34 | 070S | 200E | 4304752950 | 19184 | Federal | Fee | OW | DRL | WOC | 60 | 02/22/13 |
| Three Rivers Federal 3-12-820 | Three Rivers Fed 03-12-820 | 4 | 080S | 200E | 4304753914 | | Federal | Federal | OW | APD | APRVD | 1 | 08/01/13 |
| Three Rivers Federal 3-13-820 | Three Rivers Fed 03-13-820 | 3 | 080S | 200E | 4304753951 | | Federal | Federal | OW | APD | PERPEND | 08/12/13 | 2 |
| Three Rivers Federal 3-14-820 | Three Rivers Fed 03-14-820 | 3 | 080S | 200E | 4304753952 | | Federal | Federal | OW | APD | PERPEND | 08/12/13 | 3 |
| Three Rivers Federal 3-23-820 | Three Rivers Fed 03-23-820 | 3 | 080S | 200E | 4304753953 | | Federal | Federal | OW | APD | PERPEND | 08/12/13 | 4 |
| Three Rivers Federal 3-24-820 | Three Rivers Fed 03-24-820 | 3 | 080S | 200E | 4304753954 | | Federal | Federal | OW | APD | PERPEND | 08/12/13 | 5 |
| THREE RIVERS FEDERAL 3-32-820 | Three Rivers Fed 03-32-820 | 3 | 080S | 200E | 4304752861 | 18942 | Federal | Federal | OW | P | P | | 6 |
| THREE RIVERS FEDERAL 3-33-820 | Three Rivers Fed 03-33-820 | 3 | 080S | 200E | 4304752864 | | Federal | Federal | OW | APD | APRVD | 7 | 12/24/12 |
| THREE RIVERS FEDERAL 3-53-820 | Three Rivers Fed 03-53-820 | 3 | 080S | 200E | 4304752820 | 19104 | Federal | Federal | OW | DRL | P | 8 | 12/24/12 |
| THREE RIVERS FEDERAL 3-54-820 | Three Rivers Fed 03-54-820 | 3 | 080S | 200E | 4304752860 | | Federal | Federal | OW | APD | APRVD | 9 | 12/24/12 |

ATTACHMENT TO FORM 9 CHANGE OF OPERATOR

AXIA ENERGY TO ULTRA RESOURCES EFFECTIVE 10-01-2013

| State Well Name List downloaded 12-10-13 | Axia Well Name (for database sort and consistency) | Sec | TWN | RNG | API Number | Entity | Mineral Lease | Surface Lease | Well Type | State Well Status | Actual Status @ 12/12/13 | Submitted | Date Apprvd DOGM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THREE RIVERS 4-21-820 | Three Rivers Fed 04-21-820 | 4 | 080S | 200E | 4304752875 | 19048 | Federal | Fee | OW | DRL | P | 70 | 02/22/13 |
| THREE RIVERS FED 4-31-820 | Three Rivers Fed 04-31-820 | 4 | 080S | 200E | 4304752874 | 19023 | Federal | Fee | OW | DRL | P | 1 | 02/22/13 |
| Three Rivers Federal 4-32-820 | Three Rivers Fed 04-32-820 | 4 | 080S | 200E | 4304753552 | 19168 | Federal | Fee | OW | DRL | P | 2 | 08/26/13 |
| Three Rivers Federal 4-41-820 | Three Rivers Fed 04-41-820 | 4 | 080S | 200E | 4304753911 | | Federal | Federal | OW | APD | APRVD | 3 | 08/01/13 |
| Three Rivers Federal 4-42-820 | Three Rivers Fed 04-42-820 | 4 | 080S | 200E | 4304753913 | | Federal | Federal | OW | APD | APRVD | 4 | 08/01/13 |
| Three Rivers Federal 5-11-820 | Three Rivers Fed 05-11-820 | 5 | 080S | 200E | 4304754204 | | Federal | Federal | OW | NEW | PERPEND | 12/03/13 | 5 |
| Three Rivers Federal 5-21-820 | Three Rivers Fed 05-21-820 | 5 | 080S | 200E | 4304754205 | | Federal | Federal | OW | NEW | PERPEND | 12/03/13 | 6 |
| Three Rivers Federal 5-42-820 | Three Rivers Fed 05-42-820 | 5 | 080S | 200E | 4304753958 | | Federal | Federal | OW | APD | PERPEND | 08/19/13 | 7 |
| Three Rivers Federal 5-43-820 | Three Rivers Fed 05-43-820 | 5 | 080S | 200E | 4304753957 | | Federal | Federal | OW | APD | PERPEND | 08/19/13 | 8 |
| THREE RIVERS FEDERAL 5-56-820 | Three Rivers Fed 05-56-820 | 5 | 080S | 200E | 4304752862 | 18993 | Federal | Federal | OW | P | P | 9 | |
| THREE RIVERS FEDERAL 8-52-820 | Three Rivers Fed 08-52-820 | 8 | 080S | 200E | 4304752770 | 19156 | Federal | Federal | OW | DRL | P | 80 | 02/22/13 |
| THREE RIVERS FEDERAL 8-53-820 | Three Rivers Fed 08-53-820 | 8 | 080S | 200E | 4304752771 | 18992 | Federal | Federal | OW | P | P | 1 | |
| Three Rivers Federal 9-41-820 | Three Rivers Fed 09-41-820 | 10 | 080S | 200E | 4304753556 | 19170 | Federal | Federal | OW | DRL | P | 2 | 08/20/13 |
| THREE RIVERS FED 10-30-820 | Three Rivers Fed 10-30-820 | 10 | 080S | 200E | 4304753555 | 19169 | Federal | Federal | OW | DRL | P | 3 | 08/20/13 |
| Three Rivers Federal 10-31-820 | Three Rivers Fed 10-31-820 | 10 | 080S | 200E | 4304753437 | | Federal | Federal | OW | APD | CCS | 4 | 08/21/13 |
| Three Rivers Federal 10-32-820 | Three Rivers Fed 10-32-820 | 10 | 080S | 200E | 4304753415 | | Federal | Federal | OW | APD | CCS | 5 | 08/21/13 |
| THREE RIVERS FED 10-41-820 | Three Rivers Fed 10-41-820 | 10 | 080S | 200E | 4304752948 | 19137 | Federal | Federal | OW | DRL | P | 6 | 02/22/13 |
| THREE RIVERS FED 10-42-820 | Three Rivers Fed 10-42-820 | 10 | 080S | 200E | 4304752949 | | Federal | Federal | OW | APD | APRVD | 7 | 02/22/13 |
| Three Rivers Federal 33-11-720 | Three Rivers Fed 33-11-720 | 32 | 070S | 200E | 4304753733 | 19109 | Federal | Fee | OW | DRL | P | 8 | 07/17/13 |
| Three Rivers Federal 33-12-720 | Three Rivers Fed 33-12-720 | 33 | 070S | 200E | 4304753724 | 19250 | Federal | Fee | OW | DRL | WOC | 9 | 09/16/13 |
| Three Rivers Federal 33-13-720 | Three Rivers Fed 33-13-720 | 33 | 070S | 200E | 4304753723 | 19222 | Federal | Fee | OW | DRL | WOC | 90 | 09/16/13 |
| Three Rivers Federal 33-14-720 | Three Rivers Fed 33-14-720 | 33 | 070S | 200E | 4304753551 | 19107 | Federal | Fee | OW | DRL | P | 1 | 09/16/13 |
| Three Rivers Federal 33-24-720 | Three Rivers Fed 33-24-720 | 33 | 070S | 200E | 4304753557 | 19108 | Federal | Fee | OW | DRL | P | 2 | 07/09/13 |
| THREE RIVERS FED 34-15-720 | Three Rivers Fed 34-15-720 | 34 | 070S | 200E | 4304752965 | 18960 | Federal | Fee | OW | P | P | 3 | |
| THREE RIVERS FED 34-23-720 | Three Rivers Fed 34-23-720 | 34 | 070S | 200E | 4304752945 | 19049 | Federal | Fee | OW | DRL | P | 4 | 02/12/13 |
| Three Rivers Federal 34-25-720 | Three Rivers Fed 34-25-720 | 34 | 070S | 200E | 4304753283 | | Federal | Fee | OW | APD | APRVD | 5 | 06/10/13 |
| THREE RIVERS FED 34-33-720 | Three Rivers Fed 34-33-720 | 34 | 070S | 200E | 4304752947 | 19050 | Federal | Fee | OW | DRL | P | 6 | 02/22/13 |
| Three Rivers Federal 34-35-720 | Three Rivers Fed 34-35-720 | 34 | 070S | 200E | 4304753282 | | Federal | Fee | OW | APD | APRVD | 7 | 06/10/13 |
| Three Rivers Federal 34-42-720 | Three Rivers Fed 34-42-720 | 35 | 070S | 200E | 4304753915 | | Federal | Federal | OW | APD | APRVD | 8 | 08/01/13 |
| Three Rivers Federal 34-43-720 | Three Rivers Fed 34-43-720 | 35 | 070S | 200E | 4304753916 | | Federal | Federal | OW | APD | APRVD | 9 | 08/01/13 |
| Three Rivers Federal 35-11-720 | Three Rivers Fed 35-11-720 | 35 | 070S | 200E | 4304753944 | | Federal | Federal | OW | APD | PERPEND | 07/25/13 | 100 |
| Three Rivers Federal 35-12-720 | Three Rivers Fed 35-12-720 | 35 | 070S | 200E | 4304753917 | | Federal | Federal | OW | APD | APRVD | 1 | 08/01/13 |
| Three Rivers Federal 35-13-720 | Three Rivers Fed 35-13-720 | 35 | 070S | 200E | 4304753554 | | Federal | Federal | OW | APD | APRVD | 2 | 08/20/13 |
| Three Rivers Federal 35-14-720 | Three Rivers Fed 35-14-720 | 35 | 070S | 200E | 4304753553 | | Federal | Federal | OW | APD | APRVD | 3 | 08/22/13 |
| Three Rivers Federal 35-21-720 | Three Rivers Fed 35-21-720 | 35 | 070S | 200E | 4304753943 | | Federal | Federal | OW | APD | PERPEND | 07/25/13 | 4 |
| THREE RIVERS FED 35-32-720 | Three Rivers Fed 35-32-720 | 35 | 070S | 200E | 4304753005 | 19138 | Federal | Federal | OW | DRL | APRVD | 5 | 02/22/13 |
| THREE RIVERS FED 35-34-720 | Three Rivers Fed 35-34-720 | 35 | 070S | 200E | 4304753006 | | Federal | Federal | OW | APD | APRVD | 6 | 02/22/13 |
| THREE RIVERS FED 35-42-720 | Three Rivers Fed 35-42-720 | 35 | 070S | 200E | 4304753007 | | Federal | Federal | OW | APD | APRVD | 7 | 02/22/13 |
| Three Rivers Federal 35-43-720 | Three Rivers Fed 35-43-720 | 35 | 070S | 200E | 4304753918 | | Federal | Federal | OW | APD | APRVD | 8 | 08/01/13 |
| Three Rivers Federal 35-442-720 | Three Rivers Fed 35-442-720 | 35 | 070S | 200E | 4304753919 | | Federal | Federal | OW | APD | APRVD | 9 | 08/01/13 |
| THREE RIVERS FED 35-44-720 | Three Rivers Fed 35-44-720 | 35 | 070S | 200E | 4304753008 | | Federal | Federal | OW | APD | APRVD | 110 | 02/22/13 |
| Three Rivers Fed 03-34-820 | Three Rivers Fed 03-34-820 | 3 | 080S | 200E | | | Federal | | | NA | SUB | 12/10/13 | 1 |
| Three Rivers Fed 03-44-820 | Three Rivers Fed 03-44-820 | 3 | 080S | 200E | | | Federal | | | NA | SUB | 12/10/13 | 2 |
| Three Rivers Fed 08-31-820 | Three Rivers Fed 08-31-820 | 8 | 080S | 200E | | | Federal | | | NA | SUB | 12/07/13 | 3 |
| Three Rivers Fed 08-41-820 | Three Rivers Fed 08-41-820 | 9 | 080S | 200E | | | Federal | | | NA | SUB | 12/07/13 | 4 |

# STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU85994

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**
Oil Well

**8. WELL NAME and NUMBER:**
THREE RIVERS FEDERAL 8-52-820

**2. NAME OF OPERATOR:**
ULTRA RESOURCES INC

**9. API NUMBER:**
43047527700000

**3. ADDRESS OF OPERATOR:**
304 Inverness Way South #245 , Englewood, CO, 80112

**PHONE NUMBER:**
303 645-9810 Ext

**9. FIELD and POOL or WILDCAT:**
THREE RIVERS

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
2112 FNL 1200 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SENE Section: 08 Township: 08.0S Range: 20.0E Meridian: S

**COUNTY:**
UINTAH

**STATE:**
UTAH

**11.**
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☑ SUBSEQUENT REPORT<br>Date of Work Completion:<br>9/19/2013 | ☑ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ DRILLING REPORT<br>Report Date: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

Ultra requests to update the SHL per As-Drilled Plat attached.

**Accepted by the**
**Utah Division of**
**Oil, Gas and Mining**
**FOR RECORD ONLY**
February 18, 2014

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Debbie Ghani | 303 645-9810 | Sr. Permitting Specialist |
| **SIGNATURE** | | **DATE** |
| N/A | | 2/6/2014 |

RECEIVED: Feb. 06, 2014

Sundry Number: 47623 API Well Number: 43047527700000

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

## SUNDRY NOTICES AND REPORTS ON WELLS

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE - Other instructions on reverse side.***

5. Lease Serial No.
UTU85994

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
THREE RIVERS FED 8-52-820

2. Name of Operator
ULTRA RESOURCES, INC.
Contact: DEBBIE GHANI
E-Mail: dghani@ultrapetroleum.com

9. API Well No.
43-047-52770

3a. Address
304 INVERNESS WAY SOUTH SUITE 295
ENGLEWOOD, CO 80112

3b. Phone No. (include area code)
Ph: 303-645-9810

10. Field and Pool, or Exploratory
UNDESIGNATED

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 8 T8S R20E Mer SLB SENE 2112FNL 1200FEL
40.138550 N Lat, 109.687172 W Lon

11. County or Parish, and State
UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☐ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☒ Subsequent Report | ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other Change to Original APD |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Ultra requests to update the SHL per As-Drilled Plat attached.

Proposed SHL: 2112 FNL & 1200 FEL

As Drilled SHL: 2116 FNL & 1185 FEL LAT 40.138528 LONG 109.687106

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #234749 verified by the BLM Well Information System**
**For ULTRA RESOURCES, INC., sent to the Vernal**

Name *(Printed/Typed)* DEBBIE GHANI — Title SR. PERMITTING SPECIALIST

Signature (Electronic Submission) — Date 02/06/2014

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED: Feb. 06, 2014

# T8S, R20E, S.L.B.&M.

## ULTRA RESOURCES, INC.

Well location, (AS-DRILLED) THREE RIVERS FEDERAL #8-52-820, located as shown in the SE 1/4 NE 1/4 of Section 8, T8S, R20E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

Mile Marker #3
1988 Brass Cap
0.2' High,
Steel Post

S89°26'58"E
680.76' (Meas. To C.C.)
S89°26'58"E
681.13' (Meas. To True)

1382.22'

C.C.
2011 Alum.
Cap 0.6' High

S89°33'58"E - 2708.05' (Meas.)

2011 Alum. Cap
0.2' High

LOT 1

Section Corner
Re-Established Using
Grant Boundary Method
(Not Set on Ground)

N00°42'33"W
1329.08' (Meas.)

2116'

Alum.
Cap

OLD INDIAN TREATY BOUNDARY

N23°06'24"W - 5264.71' (Meas.)

LOT 2

N00°42'31"W
1329.02' (Meas.)

1214'

1185'

(AS-DRILLED) THREE RIVERS
FEDERAL #8-52-820
Elev. Graded Ground = 4747'

8

LOT 3

2011
Alum. Cap
0.2' High

N00°34'20"W
1332.63' (Meas.)

Mile Marker #2
2011 Alum. Cap
0.5' High, Pile of
Stones, Steel Post

2011 Alum. Cap
0.3' High, Steel Post

N23°17'47"W - 5246.95' (Meas.)

1962.37'

R 20 E
R 3 E

LOT 4

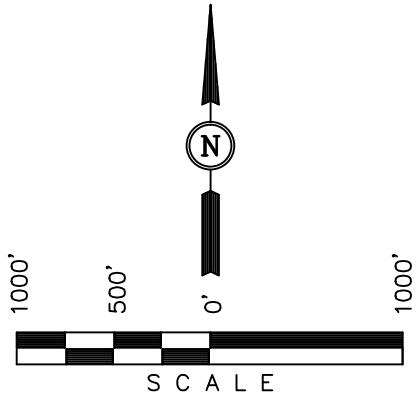
N00°34'11"W
1332.51' (Meas.)

C.C.
Alum. Cap

2011
Alum. Cap,
0.3' High, Steel Post

S88°49'48"W - 1148.76' (Meas. to C.C.)
S88°49'48"W - 1149.00' (Meas. to True)

Mile Marker #1,
Alum. Cap, 0.2' High




### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH 01-27-14

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

### LEGEND:

- ∟ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

| NAD 83 (AS-DRILLED SURFACE LOCATION) | |
|---|---|
| LATITUDE | 40°08'18.70" (40.138528) |
| LONGITUDE | 109°41'13.58" (109.687106) |

**UINTAH ENGINEERING & LAND SURVEYING**
**85 SOUTH 200 EAST - VERNAL, UTAH 84078**
(435) 789-1017

| | | |
|---|---|---|
| SCALE: 1" = 1000' | DATE SURVEYED: 01-17-14 | DATE DRAWN: 01-21-14 |
| PARTY: B.H. N.F. S.S. | REFERENCES: G.L.O. PLAT | |
| WEATHER: COLD | FILE: ULTRA RESOURCES, INC. | |

RECEIVED: Feb. 06, 2014

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

**FORM 9**

**5.LEASE DESIGNATION AND SERIAL NUMBER:**
UTU85994

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**
Oil Well

**8. WELL NAME and NUMBER:**
THREE RIVERS FEDERAL 8-52-820

**2. NAME OF OPERATOR:**
ULTRA RESOURCES INC

**9. API NUMBER:**
43047527700000

**3. ADDRESS OF OPERATOR:**
304 Inverness Way South #245 , Englewood, CO, 80112

**PHONE NUMBER:**
303 645-9810 Ext

**9. FIELD and POOL or WILDCAT:**
THREE RIVERS

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
2116 FNL 1185 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SENE Section: 08 Township: 08.0S Range: 20.0E Meridian: S

**COUNTY:**
UINTAH

**STATE:**
UTAH

**11.**
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☑ SUBSEQUENT REPORT<br>Date of Work Completion:<br>9/19/2013 | ☑ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ DRILLING REPORT<br>Report Date: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

Ultra requests to update the SHL per As-Drilled Plat attached.

**Accepted by the**
**Utah Division of**
**Oil, Gas and Mining**
**FOR RECORD ONLY**
March 25, 2014

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Kim Dooley | 303 645-9872 | Permitting Assistant |
| **SIGNATURE** | | **DATE** |
| N/A | | 2/7/2014 |

RECEIVED: Feb. 07, 2014

# T8S, R20E, S.L.B.&M.

Mile Marker #3
1988 Brass Cap
0.2' High,
Steel Post

S89°26'58"E
680.76' (Meas. To C.C.)
S89°26'58"E
681.13' (Meas. To True)

1382.22'

C.C.
2011 Alum.
Cap 0.6' High

S89°33'58"E – 2708.05' (Meas.)

2011 Alum. Cap
0.2' High

LOT 1

Section Corner
Re-Established Using
Grant Boundary Method
(Not Set on Ground)

N00°42'33"W
1329.08' (Meas.)

2116'

Alum.
Cap

OLD INDIAN TREATY BOUNDARY

N23°06'24"W – 5264.71' (Meas.)

LOT 2

N00°42'31"W
1329.02' (Meas.)

1214'

1185'

(AS-DRILLED) THREE RIVERS
FEDERAL #8-52-820
Elev. Graded Ground = 4747'

8

LOT 3

2011
Alum. Cap
0.2' High

N00°34'20"W
1332.63' (Meas.)

Mile Marker #2
2011 Alum. Cap
0.5' High, Pile of
Stones, Steel Post

2011 Alum. Cap
0.3' High, Steel Post

1962.37'

N23°17'47"W – 5246.95' (Meas.)

R 20 E
R 3 E

LOT 4

N00°34'11"W
1332.51' (Meas.)

C.C.
Alum. Cap

2011
Alum. Cap,
0.3' High, Steel Post

S88°49'48"W – 1148.76' (Meas. to C.C.)
S88°49'48"W – 1149.00' (Meas. to True)

Mile Marker #1,
Alum. Cap, 0.2' High

## LEGEND:

- ∟ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

| NAD 83 (AS-DRILLED SURFACE LOCATION) | |
|---|---|
| LATITUDE | = 40°08'18.70" (40.138528) |
| LONGITUDE | = 109°41'13.58" (109.687106) |

## ULTRA RESOURCES, INC.

Well location, (AS-DRILLED) THREE RIVERS FEDERAL #8-52-820, located as shown in the SE 1/4 NE 1/4 of Section 8, T8S, R20E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

N

1000' 500' 0' 1000'

SCALE

### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH 01-27-14

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**
**85 SOUTH 200 EAST – VERNAL, UTAH 84078**
(435) 789-1017

| SCALE | DATE SURVEYED: | DATE DRAWN: |
|---|---|---|
| 1" = 1000' | 01-17-14 | 01-21-14 |
| PARTY: B.H. N.F. S.S. | REFERENCES: G.L.O. PLAT | |
| WEATHER: COLD | FILE: ULTRA RESOURCES, INC. | |

RECEIVED: Feb. 07, 2014

API Well Number: 43047527700000

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU85994

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: ULTRA RECOURCES, INC.
Contact: DEBBIE GHANI
E-Mail: dghani@ultrapetroleum.com

8. Lease Name and Well No.: THREE RIVERS FED 8-52-820

3. Address: 304 INVERNESS WAY SOUTH SUITE 295, ENGLEWOOD, CO 80112

3a. Phone No. (include area code): Ph: 303-645-9810

9. API Well No.: 43-047-52770

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface: SENE 2116FNL 1185FEL 40.138528 N Lat, 109.687106 W Lon

At top prod interval reported below: SWNE Lot 2 1892FNL 1985FEL 40.139141 N Lat, 109.689969 W Lon

At total depth: SWNE Lot 2 1901FNL 1971FEL 40.139096 N Lat, 109.689910 W Lon

10. Field and Pool, or Exploratory: THREE RIVERS

11. Sec., T., R., M., or Block and Survey or Area: Sec 8 T8S R20E Mer SLB

12. County or Parish: UNITAH

13. State: UT

14. Date Spudded: 09/19/2014

15. Date T.D. Reached: 10/27/2013

16. Date Completed ☐ D & A ☒ Ready to Prod. 11/20/2013

17. Elevations (DF, KB, RT, GL)*: 4747 GL

18. Total Depth: MD 6992 TVD 6868

19. Plug Back T.D.: MD TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
TRIPLE COMBO, CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 24.000 | 16.000 C-75 | 109.0 | 0 | 120 | | | | | |
| 12.250 | 8.625 J-55 | 24.0 | 0 | 931 | | 675 | | | |
| 7.875 | 5.500 J-55 | 17.0 | 13 | 6966 | | 445 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|---|---|---|---|---|---|---|---|---|
| 2.875 | 4665 | | | | | | | |

25. Producing Intervals / 26. Perforation Record

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|
| A) LOWER GREEN RIVER | 4854 | 6629 | 4854 TO 6629 | | | |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material |
|---|---|
| 4854 TO 6629 | FRACTURE/STIMULATE 7 STAGES |
| | |
| | |
| | |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| 11/26/2013 | 12/01/2013 | 24 | → | 128.0 | 70.0 | 52.0 | | | GAS PUMPING UNIT |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | POW |

28a. Production - Interval B

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

*(See Instructions and spaces for additional data on reverse side)*

**ELECTRONIC SUBMISSION #234550 VERIFIED BY THE BLM WELL INFORMATION SYSTEM**

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED: Feb. 06, 2014

28b. Production - Interval C

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

28c. Production - Interval D

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
CAPTURED

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top Meas. Depth |
|---|---|---|---|---|---|
| | | | | UPPER GREEN RIVER | 2782 |
| | | | | LOWER GREEN RIVER | 4838 |
| | | | | WASATCH | 6639 |

32. Additional remarks (include plugging procedure):
Please see attachments.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #234550 Verified by the BLM Well Information System.**
**For ULTRA RECOURCES, INC., sent to the Vernal**

Name *(please print)* DEBBIE GHANI Title SR. PERMITTING SPECIALIST

Signature (Electronic Submission) Date 02/04/2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED: Feb. 06, 2014

API Well Number: 43047527700000

[ ] Proposed

[X] As Is

# THREE RIVERS FED 8-52-820 GL: 0.0, KB: 0.0

## Sec 8, 8S, 20E Uintah County, Utah

| | Size | Weight | Grade | Depth | Sks/Cmt |
|---|---|---|---|---|---|
| **Conductor** | 16.000 | 109.000 | C-75* | 120 | |
| **Surface** | 8.625 | 24.000 | J-55 | 931 | 675 |
| **Production** | 5.500 | 17.000 | J-55 | 6966 | 445 |
| **Cement Top** | | | | 500 | |

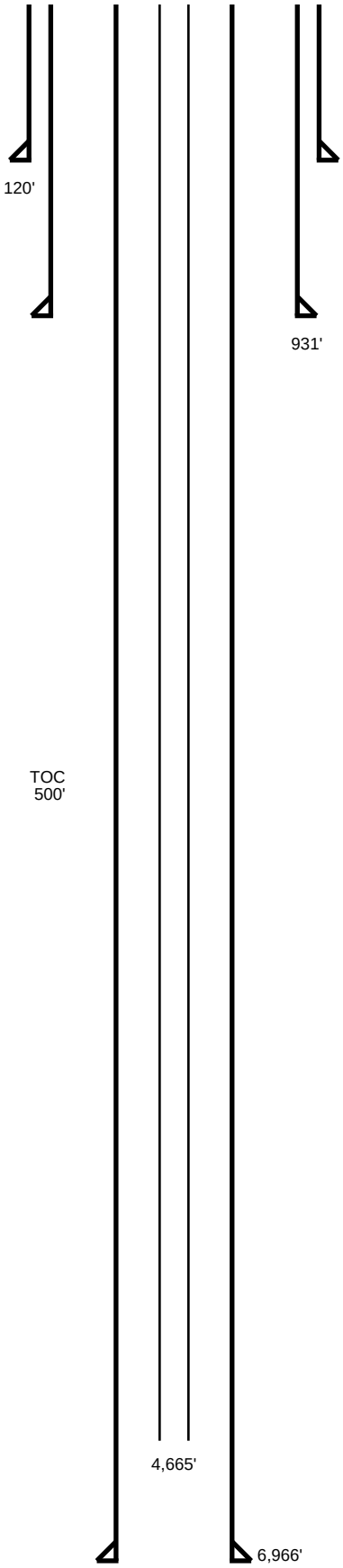
| STAGE | ZONE 1 | ZONE 2 | ZONE 3 | ZONE 4 | ZONE 5 | ZONE 6 | ZONE 7 |
|---|---|---|---|---|---|---|---|
| 1 | 6512-6513 | 6534-6536 | 6564-6567 | 6574-6575 | 6627-6629 | | |
| 2 | 6283-6284 | 6303-6304 | 6317-6318 | 6355-6356 | 6398-6399 | 6409-6410 | 6426-6428 |
| 3 | 6057-6058 | 6068-6069 | 6080-6081 | 6097-6098 | 6123-6124 | 6154-6156 | 6168-6170 |
| 4 | 5790-5792 | 5802-5803 | 5834-5835 | 5845-5846 | 5875-5877 | 5894-5895 | 5947-5948 |
| 5 | 5508-5509 | 5604-5605 | 5613-5614 | 5631-5632 | 5640-5641 | 5664-5665 | 5684-5686 |
| 6 | 5155-5156 | 5222-5223 | 5292-5293 | 5314-5315 | 5321-5322 | 5363-5365 | |
| 7 | 4854-4855 | 4872-4873 | 4888-4889 | 4933-4934 | 4944-4945 | 4990-4992 | 5002-5003 |

| Stage | Date | Av.Rate | Av.Press | Proppant | CleanFluid | Tracer | Screenout |
|---|---|---|---|---|---|---|---|
| 1 | 11/11/2013 | 55.6 | 3,059 | 75,200 | 2,530 | | N |
| 2 | 11/11/2013 | 59.8 | 2,834 | 188,400 | 5,880 | | N |
| 3 | 11/11/2014 | 58.3 | 2,429 | 167,900 | 6,101 | | N |
| 4 | 11/11/2013 | 61.1 | 2,784 | 196,500 | 5,613 | | N |
| 5 | 11/12/2013 | 61.0 | 2,906 | 120,300 | 3,509 | | N |
| 6 | 11/12/2013 | 48.6 | 3,207 | 66,130 | 1,948 | | N |
| 7 | 11/12/2013 | 59.9 | 2,239 | 142,810 | 3,912 | | N |
| | | | Totals: | 957,240 | 29,493 | | |

| Formation or Depth | Top | Sand Type | Amount |
|---|---|---|---|
| | | Gross Sand Drilled | |
| | | Gross Sand Logged | |
| | | Net Sand | |
| | | Net Pay | |

| Move In | Spud Date | TD Date | Rig Release | 1st Prod | Full Sales |
|---|---|---|---|---|---|
| 10/28/2013 | 10/28/2013 | 10/25/2013 | 10/27/2013 | 11/26/2013 | |

| Tbg Date | Depth | OD | ID | Weight | Grade | Thread | Csg Size | 1st Jt | # Joints | Coil |
|---|---|---|---|---|---|---|---|---|---|---|

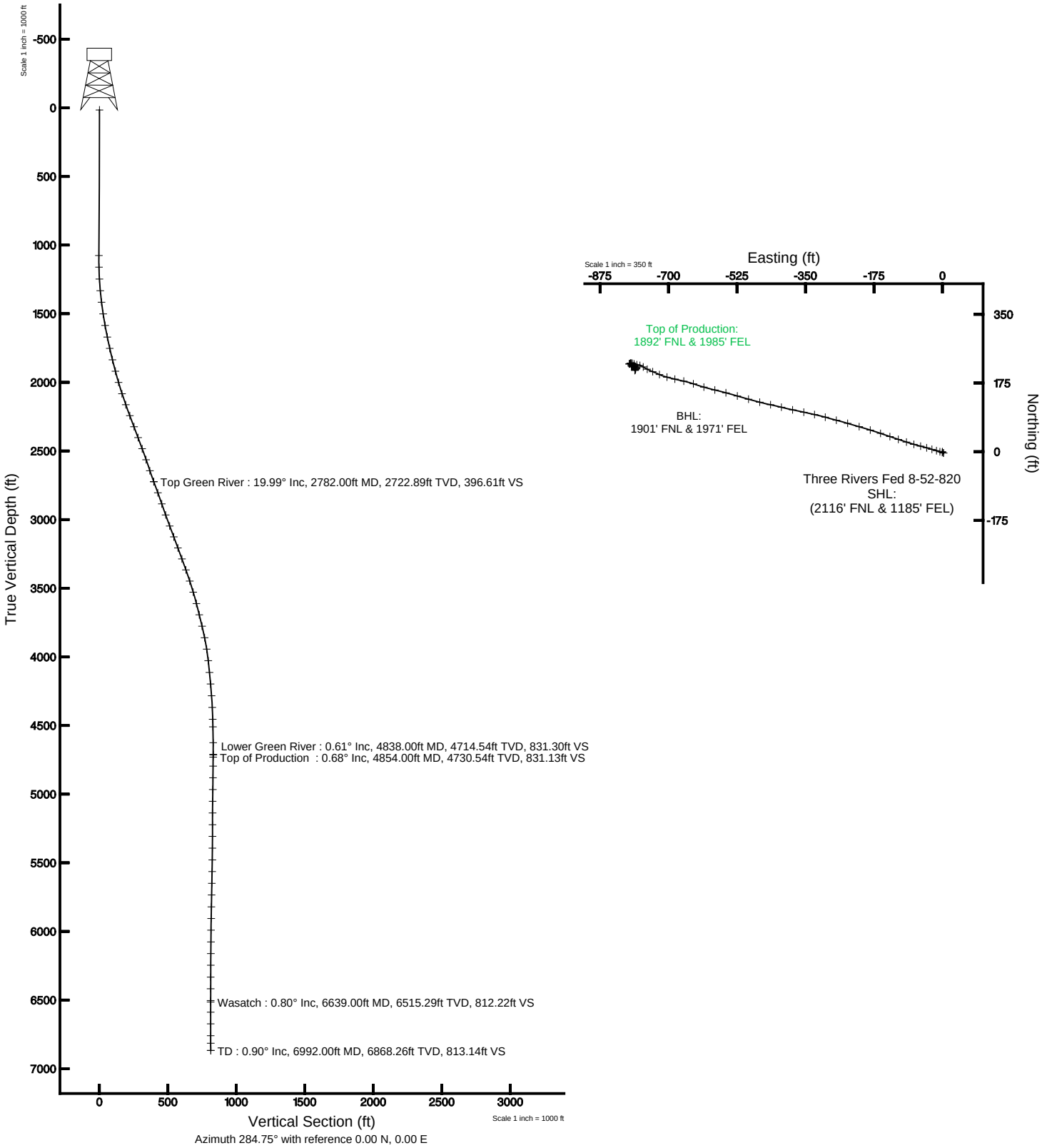



RECEIVED: Feb. 06, 2014

# ULTRA RESOURCES, INC

| | | | |
|---|---|---|---|
| Location: | Three Rivers | Slot: | Three Rivers Fed 8-52-820 (2116' FNL & 1185' FEL) |
| Field: | UINTAH COUNTY | Well: | Three Rivers Fed 8-52-820 |
| Facility: | Sec.08-T8S-R20E | Wellbore: | Three Rivers Fed 8-52-820 AWB |

| | |
|---|---|
| Plot reference wellpath is Three Rivers Federal 8-52-820 AWP | |
| True vertical depths are referenced to Rig on Three Rivers Federal 8-52-820 (2112' FNL & 1200' FEL) (RT) | Grid System: NAD83 / Lambert Utah SP, Central Zone (4302), US feet |
| Measured depths are referenced to Rig on Three Rivers Federal 8-52-820 (2112' FNL & 1200' FEL) (RT) | North Reference: True north |
| Rig on Three Rivers Federal 8-52-820 (2112' FNL & 1200' FEL) (RT) to Mean Sea Level: 4762 feet | Scale: True distance |
| Mean Sea Level to Mud line (At Slot: Three Rivers Fed 8-52-820 (2116' FNL & 1185' FEL)): 0 feet | Depths are in feet |
| Coordinates are in feet referenced to Slot | Created by: ewilliams on 2/4/2014 |




RECEIVED: Feb. 06, 2014

# Actual Wellpath Report

**Three Rivers Fed 8-52-820 AWP**

Page 1 of 4

| REFERENCE WELLPATH IDENTIFICATION | | | |
|---|---|---|---|
| Operator | **ULTRA RESOURCES, INC** | Slot | **Three Rivers Fed 8-52-820 (2116' FNL & 1185' FEL)** |
| Area | **Three Rivers** | Well | **Three Rivers Fed 8-52-820** |
| Field | **UINTAH COUNTY** | Wellbore | **Three Rivers Fed 8-52-820 AWB** |
| Facility | **Sec.08-T8S-R20E** | | |

| REPORT SETUP INFORMATION | | | |
|---|---|---|---|
| Projection System | **NAD83 / Lambert Utah SP, Central Zone (4302), US feet** | Software System | **WellArchitect® 3.0.0** |
| North Reference | **True** | User | **Ewilliams** |
| Scale | **0.999913** | Report Generated | **2/4/2014** at **1:48:14 PM** |
| Convergence at slot | **n/a** | Database/Source file | **WellArchitectDB/Three_Rivers_Fed_8-52-820_AWB.xml** |

| WELLPATH LOCATION | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|---|---|---|---|---|---|---|
| | **North[ft]** | **East[ft]** | **Easting[US ft]** | **Northing[US ft]** | **Latitude** | **Longitude** |
| Slot Location | -4.05 | 3.88 | 2147215.90 | 7224319.56 | **40°08'18.700"N** | **109°41'13.580"W** |
| Facility Reference Pt | | | 2147211.94 | 7224323.53 | **40°08'18.740"N** | **109°41'13.630"W** |
| Field Reference Pt | | | 2156630.96 | 7236613.42 | **40°10'18.270"N** | **109°39'09.100"W** |

| WELLPATH DATUM | | |
|---|---|---|
| Calculation method | **Minimum curvature** | Rig on Three Rivers Federal 8-52-820 (2112' FNL & 1200' FEL) (RT) to Facility Vertical Datum |
| Horizontal Reference Pt | **Slot** | Rig on Three Rivers Federal 8-52-820 (2112' FNL & 1200' FEL) (RT) to Mean Sea Level |
| Vertical Reference Pt | **Rig on Three Rivers Federal 8-52-820 (2112' FNL & 1200' FEL) (RT)** | Rig on Three Rivers Federal 8-52-820 (2112' FNL & 1200' FEL) (RT) to Mud Line at Slot (Three Rivers Fed 8-52-820 (2116' FNL & 11 |
| MD Reference Pt | **Rig on Three Rivers Federal 8-52-820 (2112' FNL & 1200' FEL) (RT)** | Section Origin |
| Field Vertical Reference | **Mean Sea Level** | Section Azimuth |

RECEIVED: Feb. 06, 2014

# Actual Wellpath Report

**Three Rivers Fed 8-52-820 AWP**

Page 2 of 4

| REFERENCE WELLPATH IDENTIFICATION | | | |
|---|---|---|---|
| Operator | **ULTRA RESOURCES, INC** | Slot | **Three Rivers Fed 8-52-820 (2116' FNL & 1185' FEL)** |
| Area | **Three Rivers** | Well | **Three Rivers Fed 8-52-820** |
| Field | **UINTAH COUNTY** | Wellbore | **Three Rivers Fed 8-52-820 AWB** |
| Facility | **Sec.08-T8S-R20E** | | |

**WELLPATH DATA (77 stations)** † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00† | 0.000 | 138.500 | 0.00 | 0.00 | 0.00 | 0.00 | 40°08'18.700"N | 109°41'13.580"W | 0.00 | |
| 15.00 | 0.000 | 138.500 | 15.00 | 0.00 | 0.00 | 0.00 | 40°08'18.700"N | 109°41'13.580"W | 0.00 | |
| 1076.00 | 0.500 | 138.500 | 1075.99 | -3.85 | -3.47 | 3.07 | 40°08'18.666"N | 109°41'13.541"W | 0.05 | |
| 1161.00 | 1.200 | 308.200 | 1160.98 | -3.34 | -3.19 | 2.61 | 40°08'18.668"N | 109°41'13.546"W | 1.99 | |
| 1247.00 | 3.200 | 286.400 | 1246.92 | -0.12 | -1.96 | -0.40 | 40°08'18.681"N | 109°41'13.585"W | 2.48 | |
| 1332.00 | 5.100 | 286.400 | 1331.69 | 6.03 | -0.22 | -6.30 | 40°08'18.698"N | 109°41'13.661"W | 2.24 | |
| 1417.00 | 7.200 | 287.300 | 1416.19 | 15.13 | 2.43 | -15.01 | 40°08'18.724"N | 109°41'13.773"W | 2.47 | |
| 1503.00 | 9.000 | 285.900 | 1501.33 | 27.24 | 5.87 | -26.62 | 40°08'18.758"N | 109°41'13.923"W | 2.11 | |
| 1588.00 | 10.100 | 285.700 | 1585.15 | 41.34 | 9.71 | -40.19 | 40°08'18.796"N | 109°41'14.098"W | 1.29 | |
| 1674.00 | 11.500 | 284.200 | 1669.63 | 57.45 | 13.86 | -55.77 | 40°08'18.837"N | 109°41'14.298"W | 1.66 | |
| 1759.00 | 12.700 | 286.200 | 1752.74 | 75.27 | 18.54 | -72.95 | 40°08'18.883"N | 109°41'14.519"W | 1.50 | |
| 1844.00 | 14.400 | 288.200 | 1835.37 | 95.16 | 24.45 | -91.97 | 40°08'18.942"N | 109°41'14.764"W | 2.07 | |
| 1930.00 | 14.900 | 288.300 | 1918.57 | 116.87 | 31.26 | -112.62 | 40°08'19.009"N | 109°41'15.030"W | 0.58 | |
| 2015.00 | 16.000 | 288.900 | 2000.50 | 139.46 | 38.49 | -134.08 | 40°08'19.080"N | 109°41'15.306"W | 1.31 | |
| 2101.00 | 18.300 | 288.300 | 2082.67 | 164.76 | 46.57 | -158.12 | 40°08'19.160"N | 109°41'15.616"W | 2.68 | |
| 2186.00 | 19.600 | 287.600 | 2163.06 | 192.32 | 55.07 | -184.38 | 40°08'19.244"N | 109°41'15.954"W | 1.55 | |
| 2271.00 | 21.200 | 286.500 | 2242.73 | 221.93 | 63.74 | -212.71 | 40°08'19.330"N | 109°41'16.319"W | 1.94 | |
| 2357.00 | 20.700 | 285.600 | 2323.05 | 252.67 | 72.25 | -242.25 | 40°08'19.414"N | 109°41'16.699"W | 0.69 | |
| 2442.00 | 20.300 | 284.900 | 2402.66 | 282.43 | 80.08 | -270.97 | 40°08'19.491"N | 109°41'17.069"W | 0.55 | |
| 2528.00 | 19.800 | 285.600 | 2483.45 | 311.92 | 87.83 | -299.42 | 40°08'19.568"N | 109°41'17.435"W | 0.64 | |
| 2613.00 | 19.200 | 282.500 | 2563.58 | 340.28 | 94.73 | -326.93 | 40°08'19.636"N | 109°41'17.789"W | 1.41 | |
| 2698.00 | 19.400 | 281.600 | 2643.80 | 368.34 | 100.59 | -354.41 | 40°08'19.694"N | 109°41'18.143"W | 0.42 | |
| 2782.00† | 19.986 | 282.284 | 2722.89 | 396.61 | 106.45 | -382.10 | 40°08'19.752"N | 109°41'18.500"W | 0.75 | Top Green River |
| 2784.00 | 20.000 | 282.300 | 2724.77 | 397.29 | 106.60 | -382.77 | 40°08'19.753"N | 109°41'18.508"W | 0.75 | |
| 2869.00 | 20.500 | 283.900 | 2804.51 | 426.70 | 113.27 | -411.42 | 40°08'19.819"N | 109°41'18.877"W | 0.88 | |
| 2955.00 | 18.500 | 281.700 | 2885.58 | 455.38 | 119.66 | -439.40 | 40°08'19.882"N | 109°41'19.238"W | 2.48 | |
| 3040.00 | 20.300 | 284.500 | 2965.75 | 483.60 | 126.08 | -466.88 | 40°08'19.946"N | 109°41'19.591"W | 2.38 | |
| 3126.00 | 20.200 | 285.800 | 3046.43 | 513.36 | 133.86 | -495.61 | 40°08'20.023"N | 109°41'19.961"W | 0.54 | |
| 3211.00 | 20.700 | 286.000 | 3126.08 | 543.05 | 142.00 | -524.17 | 40°08'20.103"N | 109°41'20.329"W | 0.59 | |
| 3297.00 | 20.600 | 285.100 | 3206.55 | 573.38 | 150.13 | -553.39 | 40°08'20.184"N | 109°41'20.705"W | 0.39 | |
| 3382.00 | 19.700 | 283.200 | 3286.35 | 602.65 | 157.30 | -581.78 | 40°08'20.254"N | 109°41'21.071"W | 1.31 | |
| 3467.00 | 20.000 | 285.900 | 3366.30 | 631.51 | 164.55 | -609.71 | 40°08'20.326"N | 109°41'21.430"W | 1.13 | |
| 3553.00 | 18.200 | 289.200 | 3447.57 | 659.61 | 173.00 | -636.54 | 40°08'20.409"N | 109°41'21.776"W | 2.44 | |
| 3638.00 | 16.900 | 281.800 | 3528.62 | 685.18 | 179.89 | -661.17 | 40°08'20.478"N | 109°41'22.093"W | 3.04 | |
| 3724.00 | 14.400 | 283.700 | 3611.42 | 708.36 | 184.98 | -683.80 | 40°08'20.528"N | 109°41'22.384"W | 2.97 | |
| 3809.00 | 14.200 | 284.400 | 3693.79 | 729.35 | 190.08 | -704.17 | 40°08'20.578"N | 109°41'22.647"W | 0.31 | |
| 3894.00 | 13.500 | 293.900 | 3776.33 | 749.58 | 196.69 | -723.34 | 40°08'20.644"N | 109°41'22.894"W | 2.80 | |
| 3980.00 | 11.600 | 291.500 | 3860.27 | 768.08 | 203.93 | -740.56 | 40°08'20.715"N | 109°41'23.115"W | 2.29 | |
| 4065.00 | 9.200 | 298.300 | 3943.87 | 783.17 | 210.28 | -754.50 | 40°08'20.778"N | 109°41'23.295"W | 3.17 | |
| 4150.00 | 6.900 | 300.600 | 4028.03 | 794.69 | 216.10 | -764.88 | 40°08'20.835"N | 109°41'23.428"W | 2.73 | |
| 4236.00 | 5.600 | 287.300 | 4113.52 | 803.85 | 219.98 | -773.33 | 40°08'20.874"N | 109°41'23.537"W | 2.25 | |
| 4321.00 | 5.200 | 278.200 | 4198.14 | 811.82 | 221.76 | -781.10 | 40°08'20.891"N | 109°41'23.637"W | 1.11 | |
| 4407.00 | 4.500 | 292.800 | 4283.84 | 819.04 | 223.62 | -788.07 | 40°08'20.910"N | 109°41'23.727"W | 1.64 | |
| 4492.00 | 2.100 | 289.000 | 4368.69 | 823.89 | 225.42 | -792.62 | 40°08'20.928"N | 109°41'23.786"W | 2.83 | |
| 4578.00 | 2.200 | 275.100 | 4454.63 | 827.09 | 226.08 | -795.75 | 40°08'20.934"N | 109°41'23.826"W | 0.62 | |

# Actual Wellpath Report

**Three Rivers Fed 8-52-820 AWP**

Page 3 of 4

| REFERENCE WELLPATH IDENTIFICATION | | | |
|---|---|---|---|
| Operator | **ULTRA RESOURCES, INC** | Slot | **Three Rivers Fed 8-52-820 (2116' FNL & 1185' FEL)** |
| Area | **Three Rivers** | Well | **Three Rivers Fed 8-52-820** |
| Field | **UINTAH COUNTY** | Wellbore | **Three Rivers Fed 8-52-820 AWB** |
| Facility | **Sec.08-T8S-R20E** | | |

**WELLPATH DATA (77 stations)** † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 4633.00 | 1.700 | 252.100 | 4509.60 | 828.82 | 225.93 | -797.58 | 40°08'20.933"N | 109°41'23.849"W | 1.67 | |
| 4749.00 | 1.600 | 227.000 | 4625.55 | 831.13 | 224.29 | -800.40 | 40°08'20.916"N | 109°41'23.886"W | 0.62 | |
| 4834.00 | 0.600 | 88.400 | 4710.54 | 831.34 | 223.50 | -800.82 | 40°08'20.908"N | 109°41'23.891"W | 2.46 | |
| 4838.00† | 0.615 | 86.665 | 4714.54 | 831.30 | 223.50 | -800.78 | 40°08'20.909"N | 109°41'23.891"W | 0.59 | Lower Green River |
| 4854.00† | 0.680 | 80.530 | 4730.54 | 831.13 | 223.52 | -800.60 | 40°08'20.909"N | 109°41'23.888"W | 0.59 | Top of Production |
| 4920.00 | 1.000 | 64.800 | 4796.54 | 830.33 | 223.83 | -799.70 | 40°08'20.912"N | 109°41'23.877"W | 0.59 | |
| 5005.00 | 1.100 | 73.100 | 4881.52 | 829.07 | 224.38 | -798.24 | 40°08'20.917"N | 109°41'23.858"W | 0.21 | |
| 5090.00 | 0.800 | 83.600 | 4966.51 | 827.82 | 224.69 | -796.87 | 40°08'20.920"N | 109°41'23.840"W | 0.41 | |
| 5176.00 | 0.600 | 106.800 | 5052.50 | 826.81 | 224.62 | -795.85 | 40°08'20.920"N | 109°41'23.827"W | 0.40 | |
| 5261.00 | 0.400 | 164.600 | 5137.50 | 826.22 | 224.21 | -795.34 | 40°08'20.916"N | 109°41'23.821"W | 0.60 | |
| 5347.00 | 0.700 | 170.400 | 5223.50 | 825.85 | 223.40 | -795.17 | 40°08'20.908"N | 109°41'23.818"W | 0.35 | |
| 5432.00 | 1.200 | 179.900 | 5308.48 | 825.41 | 222.00 | -795.09 | 40°08'20.894"N | 109°41'23.817"W | 0.61 | |
| 5517.00 | 1.300 | 180.900 | 5393.46 | 824.95 | 220.14 | -795.10 | 40°08'20.875"N | 109°41'23.818"W | 0.12 | |
| 5603.00 | 1.300 | 181.700 | 5479.44 | 824.49 | 218.19 | -795.14 | 40°08'20.856"N | 109°41'23.818"W | 0.02 | |
| 5688.00 | 1.800 | 67.800 | 5564.43 | 823.21 | 217.73 | -793.94 | 40°08'20.852"N | 109°41'23.803"W | 3.07 | |
| 5774.00 | 1.600 | 77.200 | 5650.39 | 821.06 | 218.51 | -791.51 | 40°08'20.859"N | 109°41'23.771"W | 0.40 | |
| 5859.00 | 1.100 | 90.100 | 5735.36 | 819.22 | 218.77 | -789.54 | 40°08'20.862"N | 109°41'23.746"W | 0.68 | |
| 5945.00 | 1.000 | 102.600 | 5821.35 | 817.67 | 218.61 | -787.98 | 40°08'20.860"N | 109°41'23.726"W | 0.29 | |
| 6030.00 | 0.900 | 120.600 | 5906.34 | 816.29 | 218.10 | -786.68 | 40°08'20.855"N | 109°41'23.709"W | 0.37 | |
| 6115.00 | 0.700 | 143.300 | 5991.33 | 815.24 | 217.35 | -785.80 | 40°08'20.848"N | 109°41'23.698"W | 0.44 | |
| 6201.00 | 0.700 | 157.400 | 6077.32 | 814.51 | 216.44 | -785.28 | 40°08'20.839"N | 109°41'23.691"W | 0.20 | |
| 6286.00 | 0.700 | 155.900 | 6162.32 | 813.87 | 215.49 | -784.87 | 40°08'20.829"N | 109°41'23.686"W | 0.02 | |
| 6371.00 | 0.800 | 164.100 | 6247.31 | 813.24 | 214.44 | -784.50 | 40°08'20.819"N | 109°41'23.681"W | 0.17 | |
| 6457.00 | 0.900 | 170.100 | 6333.30 | 812.66 | 213.20 | -784.22 | 40°08'20.807"N | 109°41'23.677"W | 0.16 | |
| 6542.00 | 0.600 | 183.800 | 6418.29 | 812.29 | 212.10 | -784.13 | 40°08'20.796"N | 109°41'23.676"W | 0.41 | |
| 6628.00 | 0.800 | 195.500 | 6504.29 | 812.22 | 211.07 | -784.32 | 40°08'20.786"N | 109°41'23.679"W | 0.28 | |
| 6639.00† | 0.799 | 196.815 | 6515.29 | 812.22 | 210.92 | -784.36 | 40°08'20.784"N | 109°41'23.679"W | 0.17 | Wasatch |
| 6713.00 | 0.800 | 205.700 | 6589.28 | 812.34 | 209.97 | -784.74 | 40°08'20.775"N | 109°41'23.684"W | 0.17 | |
| 6798.00 | 0.500 | 196.900 | 6674.27 | 812.46 | 209.08 | -785.10 | 40°08'20.766"N | 109°41'23.689"W | 0.37 | |
| 6884.00 | 0.600 | 210.400 | 6760.27 | 812.60 | 208.33 | -785.44 | 40°08'20.759"N | 109°41'23.693"W | 0.19 | |
| 6939.00 | 0.900 | 216.100 | 6815.26 | 812.83 | 207.73 | -785.84 | 40°08'20.753"N | 109°41'23.698"W | 0.56 | |
| 6992.00 | 0.900 | 216.100 | 6868.26 | 813.14 | 207.06 | -786.33 | 40°08'20.746"N | 109°41'23.705"W | 0.00 | TD |

**WELLPATH COMPOSITION** - **Ref Wellbore: Three Rivers Fed 8-52-820 AWB** **Ref Wellpath: Three Rivers Fed 8-52-820 AWP**

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|---|---|---|---|---|
| 15.00 | 6939.00 | MTC (Collar, post-2000) (Standard) | MWD | Three Rivers Fed 8-52-820 AWB |
| 6939.00 | 6992.00 | Blind Drilling (std) | Projection to bit | Three Rivers Fed 8-52-820 AWB |

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# Actual Wellpath Report

**Three Rivers Fed 8-52-820 AWP**

Page 4 of 4

| REFERENCE WELLPATH IDENTIFICATION | | | |
|---|---|---|---|
| Operator | **ULTRA RESOURCES, INC** | Slot | **Three Rivers Fed 8-52-820 (2116' FNL & 1185' FEL)** |
| Area | **Three Rivers** | Well | **Three Rivers Fed 8-52-820** |
| Field | **UINTAH COUNTY** | Wellbore | **Three Rivers Fed 8-52-820 AWB** |
| Facility | **Sec.08-T8S-R20E** | | |

**WELLPATH COMMENTS**

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
|---|---|---|---|---|
| 2782.00 | 19.986 | 282.284 | 2722.89 | Top Green River |
| 4838.00 | 0.615 | 86.665 | 4714.54 | Lower Green River |
| 4854.00 | 0.680 | 80.530 | 4730.54 | Top of Production |
| 6639.00 | 0.799 | 196.815 | 6515.29 | Wasatch |
| 6992.00 | 0.900 | 216.100 | 6868.26 | TD |

RECEIVED: Feb. 06, 2014

# ULTRA RESOURCES, INC.
# PERFORATION AND FRAC SUMMARY FOR THREE RIVERS FED 8-52-820

| Well Name: | THREE RIVERS FED 8-52-820 | Fracs Planned: | 7 |
|---|---|---|---|
| Location: | UINTAH County, UTAH (SENE 008 8S 20E) | | |

**Stage 1** — Initial Completion

| | | | | | |
|---|---|---|---|---|---|
| Frac Date: | 11/11/2013 | Avg Rate: | 55.6 BPM | Avg Pressure: | 3,059 PSI |
| Proppant: | 75,200 lbs total<br>75200 lbs Sand | Max Rate: | 61.6 BPM | Max Pressure: | 3,599 PSI |
| Initial Annulus Pressure: | | Final Annulus Pressure: | | Pump Down Volume: | |
| PreFrac SICP: | 1,732 PSI | ISIP: | 2,230 PSI | Base BBLS to Recover: | 2,530 BBLs |
| Pseudo Frac Gradient: | 0.769 PSI/FT | Pseudo Frac Gradient: | 14.792 LB/GAL | | |
| | | Net Pressure: | | Total BBLS to Recover: | 2,530 BBLs |
| Breakdown Pressure: | 3110 | Breakdown Rate: | 8.4 | Perfs Open: | 25 |
| ScreenOut: | No | Tracer: | (None) | | |



| Zones: | Perf Date | SPF | Perf Interval: From | To |
|---|---|---|---|---|
| 1 | 11/08/2013 | 3 | 6,512 | 6,513 |
| 2 | 11/08/2013 | 3 | 6,534 | 6,536 |
| 3 | 11/08/2013 | 3 | 6,564 | 6,567 |
| 4 | 11/08/2013 | 3 | 6,574 | 6,575 |
| 5 | 11/08/2013 | 3 | 6,627 | 6,629 |

**Stage 2** — Initial Completion

| | | | | | |
|---|---|---|---|---|---|
| Frac Date: | 11/11/2013 | Avg Rate: | 59.8 BPM | Avg Pressure: | 2,834 PSI |
| Proppant: | 188,400 lbs total<br>188400 lbs Sand | Max Rate: | 60.6 BPM | Max Pressure: | 3,548 PSI |
| Initial Annulus Pressure: | | Final Annulus Pressure: | | Pump Down Volume: | |
| PreFrac SICP: | 1,214 PSI | ISIP: | 1,750 PSI | Base BBLS to Recover: | 5,880 BBLs |
| Pseudo Frac Gradient: | 0.703 PSI/FT | Pseudo Frac Gradient: | 13.520 LB/GAL | | |
| | | Net Pressure: | | Total BBLS to Recover: | 5,880 BBLs |
| Breakdown Pressure: | 1160 | Breakdown Rate: | 4.3 | Perfs Open: | 32 |
| ScreenOut: | No | Tracer: | (None) | | |

| Zones: | Perf Date | SPF | Perf Interval: From | To |
|---|---|---|---|---|
| 1 | 11/11/2013 | 3 | 6,283 | 6,284 |
| 2 | 11/11/2013 | 3 | 6,303 | 6,304 |
| 3 | 11/11/2013 | 3 | 6,317 | 6,318 |
| 4 | 11/11/2013 | 3 | 6,355 | 6,356 |
| 5 | 11/11/2013 | 3 | 6,398 | 6,399 |
| 6 | 11/11/2013 | 3 | 6,409 | 6,410 |
| 7 | 11/11/2013 | 3 | 6,426 | 6,428 |
| 8 | 11/11/2013 | 3 | 6,440 | 6,442 |
| 9 | 11/11/2013 | 3 | 6,450 | 6,452 |
| 10 | 11/11/2013 | 3 | 6,474 | 6,475 |

**Stage 3** — Initial Completion

| | | | | | |
|---|---|---|---|---|---|
| Frac Date: | 11/11/2014 | Avg Rate: | 58.3 BPM | Avg Pressure: | 2,429 PSI |
| Proppant: | 167,900 lbs total<br>167900 lbs Sand | Max Rate: | 61.9 BPM | Max Pressure: | 2,959 PSI |
| Initial Annulus Pressure: | | Final Annulus Pressure: | | Pump Down Volume: | |
| PreFrac SICP: | 1,370 PSI | ISIP: | 1,804 PSI | Base BBLS to Recover: | 6,101 BBLs |
| Pseudo Frac Gradient: | 0.722 PSI/FT | Pseudo Frac Gradient: | 13.882 LB/GAL | | |
| | | Net Pressure: | | Total BBLS to Recover: | 6,101 BBLs |
| Breakdown Pressure: | 1550 | Breakdown Rate: | 10.3 | Perfs Open: | 36 |
| ScreenOut: | No | Tracer: | (None) | | |

| Zones: | Perf Date | SPF | Perf Interval: From | To |
|---|---|---|---|---|
| 1 | 11/11/2013 | 3 | 6,057 | 6,058 |
| 2 | 11/11/2013 | 3 | 6,068 | 6,069 |
| 3 | 11/11/2013 | 3 | 6,080 | 6,081 |
| 4 | 11/11/2013 | 3 | 6,097 | 6,098 |
| 5 | 11/11/2013 | 3 | 6,123 | 6,124 |
| 6 | 11/11/2013 | 3 | 6,154 | 6,156 |
| 7 | 11/11/2013 | 3 | 6,168 | 6,170 |
| 8 | 11/11/2013 | 3 | 6,182 | 6,183 |
| 9 | 11/11/2013 | 3 | 6,207 | 6,208 |
| 10 | 11/11/2013 | 3 | 6,221 | 6,222 |
| 11 | 11/11/2013 | 3 | 6,238 | 6,240 |

**Stage 4** — Initial Completion

| | | | | | |
|---|---|---|---|---|---|
| Frac Date: | 11/11/2013 | Avg Rate: | 61.1 BPM | Avg Pressure: | 2,784 PSI |
| Proppant: | 196,500 lbs total<br>196500 lbs Sand | Max Rate: | 61.9 BPM | Max Pressure: | 3,457 PSI |
| Initial Annulus Pressure: | | Final Annulus Pressure: | | Pump Down Volume: | |
| PreFrac SICP: | 1,642 PSI | ISIP: | 1,822 PSI | Base BBLS to Recover: | 5,613 BBLs |
| Pseudo Frac Gradient: | 0.736 PSI/FT | Pseudo Frac Gradient: | 14.142 LB/GAL | | |
| | | Net Pressure: | | Total BBLS to Recover: | 5,613 BBLs |
| Breakdown Pressure: | 3756 | Breakdown Rate: | 50.4 | Perfs Open: | 38 |
| ScreenOut: | No | Tracer: | (None) | | |

| Zones: | Perf Date | SPF | Perf Interval: From | To |
|---|---|---|---|---|
| 1 | 11/11/2013 | 3 | 5,790 | 5,792 |
| 2 | 11/11/2013 | 3 | 5,802 | 5,803 |
| 3 | 11/11/2013 | 3 | 5,834 | 5,835 |
| 4 | 11/11/2013 | 3 | 5,845 | 5,846 |
| 5 | 11/11/2013 | 3 | 5,875 | 5,877 |
| 6 | 11/11/2013 | 3 | 5,894 | 5,895 |
| 7 | 11/11/2013 | 3 | 5,947 | 5,948 |
| 8 | 11/11/2013 | 3 | 5,955 | 5,956 |
| 9 | 11/11/2013 | 3 | 5,984 | 5,985 |
| 10 | 11/11/2013 | 3 | 6,000 | 6,001 |
| 11 | 11/11/2013 | 3 | 6,020 | 6,021 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Stage 5 | Frac Date: | 11/12/2013 | Avg Rate: | 61.0 BPM | Avg Pressure: | 2,906 PSI | |
| Initial Completion | Proppant: | 120,300 lbs total<br>120300 lbs Sand | Max Rate: | 62.8 BPM | Max Pressure: | 3,126 PSI | |
| | Initial Annulus Pressure: | | Final Annulus Pressure: | | Pump Down Volume: | | |
| | PreFrac SICP: | 1,777 PSI | ISIP: | 2,023 PSI | Base BBLS to Recover: | 3,509 BBLs | |
| | Pseudo Frac Gradient: | 0.786 PSI/FT | Pseudo Frac Gradient: | 15.107 LB/GAL | | | |
| | | | Net Pressure: | | Total BBLS to Recover: | 3,509 BBLs | |
| | Breakdown Pressure: | 1383 | Breakdown Rate: | 9.6 | Perfs Open: | 30 | |
| | ScreenOut: | No | Tracer: | (None) | | | |

| Zones: | Perf Date | SPF | Perf Interval: | From | To |
|---|---|---|---|---|---|
| 1 | 11/12/2013 | 3 | | 5,508 | 5,509 |
| 2 | 11/12/2013 | 3 | | 5,604 | 5,605 |
| 3 | 11/12/2013 | 3 | | 5,613 | 5,614 |
| 4 | 11/12/2013 | 3 | | 5,631 | 5,632 |
| 5 | 11/12/2013 | 3 | | 5,640 | 5,641 |
| 6 | 11/12/2013 | 3 | | 5,664 | 5,665 |
| 7 | 11/12/2013 | 3 | | 5,684 | 5,686 |
| 8 | 11/12/2013 | 3 | | 5,706 | 5,707 |
| 9 | 11/12/2013 | 3 | | 5,733 | 5,734 |

API Well Number: 43047527700000

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Stage 6 | Frac Date: | 11/12/2013 | Avg Rate: | 48.6 BPM | Avg Pressure: | 3,207 PSI | |
| Initial Completion | Proppant: | 66,130 lbs total<br>66130 lbs Sand | Max Rate: | 50.0 BPM | Max Pressure: | 3,402 PSI | |
| | Initial Annulus Pressure: | | Final Annulus Pressure: | | Pump Down Volume: | | |
| | PreFrac SICP: | 1,507 PSI | ISIP: | 1,833 PSI | Base BBLS to Recover: | 1,948 BBLs | |
| | Pseudo Frac Gradient: | 0.775 PSI/FT | Pseudo Frac Gradient: | 14.893 LB/GAL | | | |
| | | | Net Pressure: | | Total BBLS to Recover: | 1,948 BBLs | |
| | Breakdown Pressure: | 3100 | Breakdown Rate: | 10.0 | Perfs Open: | 20 | |
| | ScreenOut: | No | Tracer: | (None) | | | |

| Zones: | Perf Date | SPF | Perf Interval: | From | To |
|---|---|---|---|---|---|
| 1 | 11/12/2013 | 3 | | 5,155 | 5,156 |
| 2 | 11/12/2013 | 3 | | 5,222 | 5,223 |
| 3 | 11/12/2013 | 3 | | 5,292 | 5,293 |
| 4 | 11/12/2013 | 3 | | 5,314 | 5,315 |
| 5 | 11/12/2013 | 3 | | 5,321 | 5,322 |
| 6 | 11/12/2013 | 3 | | 5,363 | 5,365 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Stage 7 | Frac Date: | 11/12/2013 | Avg Rate: | 59.9 BPM | Avg Pressure: | 2,239 PSI | |
| Initial Completion | Proppant: | 142,810 lbs total<br>142810 lbs Sand | Max Rate: | 61.5 BPM | Max Pressure: | 2,490 PSI | |
| | Initial Annulus Pressure: | | Final Annulus Pressure: | | Pump Down Volume: | | |
| | PreFrac SICP: | 1,179 PSI | ISIP: | 1,314 PSI | Base BBLS to Recover: | 3,912 BBLs | |
| | Pseudo Frac Gradient: | 0.691 PSI/FT | Pseudo Frac Gradient: | 13.284 LB/GAL | | | |
| | | | Net Pressure: | | Total BBLS to Recover: | 3,912 BBLs | |
| | Breakdown Pressure: | 1645 | Breakdown Rate: | 10.0 | Perfs Open: | 36 | |
| | ScreenOut: | No | Tracer: | (None) | | | |

| Zones: | Perf Date | SPF | Perf Interval: | From | To |
|---|---|---|---|---|---|
| 1 | 11/12/2013 | 3 | | 4,854 | 4,855 |
| 2 | 11/12/2013 | 3 | | 4,872 | 4,873 |
| 3 | 11/12/2013 | 3 | | 4,888 | 4,889 |
| 4 | 11/12/2013 | 3 | | 4,933 | 4,934 |
| 5 | 11/12/2013 | 3 | | 4,944 | 4,945 |
| 6 | 11/12/2013 | 3 | | 4,990 | 4,992 |
| 7 | 11/12/2013 | 3 | | 5,002 | 5,003 |
| 8 | 11/12/2013 | 3 | | 5,038 | 5,040 |
| 9 | 11/12/2013 | 3 | | 5,077 | 5,078 |
| 10 | 11/12/2013 | 3 | | 5,092 | 5,093 |



RECEIVED: Feb. 06, 2014

# ULTRA RESOURCES, INC.
# DAILY COMPLETION REPORT FOR 11/04/2013 TO 11/23/2013

| | | | |
|---|---|---|---|
| Well Name | THREE RIVERS FED 8-52-820 | Fracs Planned | 7 |
| Location: | UINTAH County, UTAH(SENE 8 8S 20E) | AFE# | 130517 |
| Total Depth Date: | 10/25/2013 TD 6,992 | Formation: | (Not Specified) |
| Production Casing: | Size 5.500 Wt 17.000 Grade J-55 Set At 6,966 | GL: | KB: 0 |

| | | | |
|---|---|---|---|
| Date: | 11/04/2013 | | |
| Supervisor: | (Missing) | | |
| Work Objective: | Build Tank Battery | | |
| Contractors: | (Missing) | | |
| Completion Rig: | (Missing) | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | |
| Activities | | | |
| 0600-0600 | Build Tank Battery | | |
| Costs ($): | Daily: 0 | Cum: 282,552 | AFE: 0 |

API Well Number: 43047527700000

| | | | |
|---|---|---|---|
| Date: | 11/05/2013 | | |
| Supervisor: | Joe Duncan | | |
| Work Objective: | Logging | | |
| Contractors: | (Missing) | | |
| Completion Rig: | (Missing) | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | |
| Activities | | | |
| 0600-0600 | Build Tank Battery | | |
| 0600-0600 | MIRU JW WLU. Run GR/CBL/CCL fr/6,900' to surface. TOC @ 1,960'. POH RDMO WLU. SDFN. | | |
| Costs ($): | Daily: 24,490 | Cum: 307,042 | AFE: 0 |

| | | | |
|---|---|---|---|
| Date: | 11/06/2013 | | |
| Supervisor: | (Missing) | | |
| Work Objective: | (Nothing Recorded) | | |
| Contractors: | (Missing) | | |
| Completion Rig: | (Missing) | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | |
| Activities | | | |
| 0600-0600 | MIRU JW WLU. Run GR/CBL/CCL fr/6,900' to surface. TOC @ 1,960'. POH RDMO WLU. SDFN. | | |
| Costs ($): | Daily: 0 | Cum: 307,042 | AFE: 0 |

| | | | |
|---|---|---|---|
| Date: | 11/07/2013 | | |
| Supervisor: | (Missing) | | |
| Work Objective: | (Nothing Recorded) | | |
| Contractors: | (Missing) | | |
| Completion Rig: | (Missing) | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | |
| Costs ($): | Daily: 6,022 | Cum: 313,064 | AFE: 0 |

| | | | |
|---|---|---|---|
| Date: | 11/08/2013 | | |
| Supervisor: | Joe Duncan | | |
| Work Objective: | Perforate | | |
| Contractors: | (Missing) | | |
| Completion Rig: | (Missing) | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | |
| Activities | | | |
| 0600-0600 | MINU Knight BOP. MIRU JW WL Unit Perforate Green River Stage #1 fr/6,512' to 6,629', 3 SPF, 120 deg phasing. POOH wait on frac date. | | |
| Costs ($): | Daily: 27,364 | Cum: 340,428 | AFE: 0 |

| | | | |
|---|---|---|---|
| Date: | 11/09/2013 | | |
| Supervisor: | (Missing) | | |
| Work Objective: | (Nothing Recorded) | | |
| Contractors: | (Missing) | | |
| Completion Rig: | (Missing) | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | |
| Activities | | | |
| 0600-0600 | MINU Knight BOP. MIRU JW WL Unit Perforate Green River Stage #1 fr/6,512' to 6,629', 3 SPF, 120 deg phasing. POOH wait on frac date. | | |
| Costs ($): | Daily: 0 | Cum: 340,428 | AFE: 0 |

| | | | |
|---|---|---|---|
| Date: | 11/10/2013 | | |
| Supervisor: | (Missing) | | |
| Work Objective: | (Nothing Recorded) | | |
| Contractors: | (Missing) | | |
| Completion Rig: | (Missing) | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | |
| Costs ($): | Daily: 7,050 | Cum: 347,478 | AFE: 0 |

| Date: | 11/11/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | Joe Duncan | | | | |
| Work Objective: | Perf & Frac | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Activities | | | | | |
| 0600-0600 | FRAC GREEN RIVER STAGE 1 (6,512' - 6,629') | | | | |
| | PERF & FRAC GREEN RIVER STAGE 2 (6,283' - 6,475') | | | | |
| | PERF & FRAC GREEN RIVER STAGE 3 (6,057' - 6,240') | | | | |
| | PERF & FRAC GREEN RIVER STAGE 4 (5,790' - 6,021') | | | | |
| Costs ($): | Daily: 16,554 | Cum: 364,033 | | AFE: 0 | |

| Date: | 11/12/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | Joe Duncan | | | | |
| Work Objective: | Perf & Frac | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Activities | | | | | |
| 0600-0600 | FRAC GREEN RIVER STAGE 1 (6,512' - 6,629') | | | | |
| | PERF & FRAC GREEN RIVER STAGE 2 (6,283' - 6,475') | | | | |
| | PERF & FRAC GREEN RIVER STAGE 3 (6,057' - 6,240') | | | | |
| | PERF & FRAC GREEN RIVER STAGE 4 (5,790' - 6,021') | | | | |
| 0600-0600 | PERF & FRAC GREE RIVER STAGE 5 (5,508' - 5,734') | | | | |
| | PERF & FRAC GREE RIVER STAGE 6 (5,155' - 5,365') | | | | |
| | PERF & FRAC GREE RIVER STAGE 7 (4,854' - 5,093') | | | | |
| Costs ($): | Daily: 19,872 | Cum: 383,904 | | AFE: 0 | |



| Date: | 11/13/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | Joe Duncan | | | | |
| Work Objective: | Flow Back Frac & Drill out plugs | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Activities | | | | | |
| 0600-0600 | PERF & FRAC GREE RIVER STAGE 5 (5,508' - 5,734') | | | | |
| | PERF & FRAC GREE RIVER STAGE 6 (5,155' - 5,365') | | | | |
| | PERF & FRAC GREE RIVER STAGE 7 (4,854' - 5,093') | | | | |
| Costs ($): | Daily: 1,757 | Cum: 385,661 | | AFE: 0 | |

| Date: | 11/14/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | Joe Duncan | | | | |
| Work Objective: | Flow Back Frac & Drill out plugs | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Costs ($): | Daily: 144,473 | Cum: 530,134 | | AFE: 0 | |

| Date: | 11/15/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | Joe Duncan | | | | |
| Work Objective: | Flow Back | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Activities | | | | | |
| 0600-0600 | 11-15-13 @ 06:00 hrs: 380# CP on 20/64 choke. Made 2075 BW in 24 hrs. | | | | |
| Costs ($): | Daily: 1,451 | Cum: 531,584 | | AFE: 0 | |

| Date: | 11/16/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | Joe Duncan | | | | |
| Work Objective: | Flow Back | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Activities | | | | | |
| 0600-0600 | 11-15-13 @ 06:00 hrs: 380# CP on 20/64 choke. Made 2075 BW in 24 hrs. | | | | |
| 0600-0600 | 11-16-13 @ 06:00 hrs: 340# CP on 20/64 choke. Made 155 BW in 3 hrs. Turn well over to production | | | | |
| Costs ($): | Daily: 8,025 | Cum: 539,609 | | AFE: 0 | |



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| Date: | 11/17/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | (Missing) | | | | |
| Work Objective: | (Nothing Recorded) | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Activities | | | | | |
| 0600-0600 | 11-16-13 @ 06:00 hrs: 340# CP on 20/64 choke. Made 155 BW in 3 hrs. Turn well over to production | | | | |
| Costs ($): | Daily: 0 | Cum: | 539,609 | AFE: | 0 |

| Date: | 11/18/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | (Missing) | | | | |
| Work Objective: | (Nothing Recorded) | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Costs ($): | Daily: 406,317 | Cum: | 945,926 | AFE: | 0 |



| Date: | 11/19/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | Joe Duncan | | | | |
| Work Objective: | Run Production Tbg & Rods | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Costs ($): | Daily: 25,395 | Cum: | 971,321 | AFE: | 0 |

| Date: | 11/20/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | Joe Duncan | | | | |
| Work Objective: | Run Production Tbg & Rods | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Activities | | | | | |
| 0600-0600 | TIH w/pump and rods as follows: | | | | |
| | Rod detail as follows: | | | | |
| | 1-1/2" X 30' PR | | | | |
| | No rod subs | | | | |
| | 69 - 7/8" guided rods 4 per | | | | |
| | 70 - 3/4" guided rods 4 per | | | | |
| | 38 - 7/8" guided rods 4 per | | | | |
| | Pump 2-7/8" X 2-1/4" X 24' X 28' X 28' THMB #26 | | | | |
| | Seat pump. LS and PT pump to 900 psig, gd tst. | | | | |
| | Turn well over to production. | | | | |
| Costs ($): | Daily: 8,417 | Cum: | 979,739 | AFE: | 0 |

| Date: | 11/21/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | (Missing) | | | | |
| Work Objective: | (Nothing Recorded) | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Activities | | | | | |
| 0600-0600 | TIH w/pump and rods as follows: | | | | |
| | Rod detail as follows: | | | | |
| | 1-1/2" X 30' PR | | | | |
| | No rod subs | | | | |
| | 69 - 7/8" guided rods 4 per | | | | |
| | 70 - 3/4" guided rods 4 per | | | | |
| | 38 - 7/8" guided rods 4 per | | | | |
| | Pump 2-7/8" X 2-1/4" X 24' X 28' X 28' THMB #26 | | | | |
| | Seat pump. LS and PT pump to 900 psig, gd tst. | | | | |
| | Turn well over to production. | | | | |
| Costs ($): | Daily: 10,390 | Cum: | 990,129 | AFE: | 0 |

| Date: | 11/22/2013 | | | | |
|---|---|---|---|---|---|
| Supervisor: | (Missing) | | | | |
| Work Objective: | (Nothing Recorded) | | | | |
| Contractors: | (Missing) | | | | |
| Completion Rig: | (Missing) | | | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | | | |
| Costs ($): | Daily: 38,232 | Cum: | 1,028,361 | AFE: | 0 |

| | | | |
|---|---|---|---|
| Date: 11/23/2013 | | | |
| Supervisor: | Joe Duncan | | |
| Work Objective: | Cost Adjustment | | |
| Contractors: | (Missing) | | |
| Completion Rig: | (Missing) | Supervisor Phone: | (Missing) |
| Upcoming Activity: | | | |
| Costs ($): | Daily: 0 | Cum: 1,028,361 | AFE: 0 |

API Well Number: 43047527700000



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# Hydraulic Fracturing Fluid Product Component Information Disclosure

| | |
|---|---|
| Job Start Date: | 11/11/2013 |
| Job End Date: | 11/12/2013 |
| State: | Utah |
| County: | Uintah |
| API Number: | 43-047-52770-00-00 |
| Operator Name: | Ultra Resources |
| Well Name and Number: | Three Rivers Federal 8-52-820 |
| Longitude: | -109.68659000 |
| Latitude: | 40.13862000 |
| Datum: | NAD27 |
| Federal/Tribal Well: | NO |
| True Vertical Depth: | 7,200 |
| Total Base Water Volume (gal): | 1,231,754 |
| Total Base Non Water Volume: | 0 |

**Hydraulic Fracturing Fluid Composition:**

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|---|---|---|---|---|---|---|---|
| 2% KCL Water | Operator | Base Fluid | | | | | |
| | | | 2% KCL Water | NA | 100.00000 | 70.37646 | Density = 8.410 |
| Fresh Water | Operator | Base Fluid | | | | | |
| | | | Fresh Water | 7732-18-5 | 100.00000 | 20.34811 | Density = 8.330 |
| SAND - PREMIUM WHITE | Halliburton | Proppant | | | | | |
| | | | Crystalline silica, quartz | 14808-60-7 | 100.00000 | 8.40159 | |
| HYDROCHLORIC ACID 10-30% | Halliburton | Solvent | | | | | |
| | | | Hydrochloric acid | 7647-01-0 | 30.00000 | 0.16496 | |
| LoSurf-300D | Halliburton | Non-ionic Surfactant | | | | | |
| | | | Ethanol | 64-17-5 | 60.00000 | 0.05132 | |
| | | | Heavy aromatic petroleum naphtha | 64742-94-5 | 30.00000 | 0.02566 | |
| | | | Naphthalene | 91-20-3 | 5.00000 | 0.00428 | |
| | | | Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched | 127087-87-0 | 5.00000 | 0.00428 | |
| | | | 1,2,4 Trimethylbenzene | 95-63-6 | 1.00000 | 0.00086 | |
| WG-36 GELLING AGENT | Halliburton | Gelling Agent | | | | | |
| | | | Guar gum | 9000-30-0 | 100.00000 | 0.04740 | |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BC-140 | Halliburton | Crosslinker | | | | | |
| | | | Monoethanolamine borate | 26038-87-9 | 60.00000 | 0.03002 | |
| | | | Ethylene glycol | 107-21-1 | 30.00000 | 0.01501 | |
| MC MX 2-2822 | Multi-Chem | Scale Inhibitor | | | | | |
| | | | Phosphonate of a Diamine, Sodium Salt | Proprietary | 30.00000 | 0.01339 | |
| | | | Methyl alcohol | 67-56-1 | 30.00000 | 0.01339 | |
| CLA-WEB | Halliburton | Additive | | | | | |
| | | | Ammonium salt | Confidential | 60.00000 | 0.02508 | |
| FE-1A ACIDIZING COMPOSITION | Halliburton | Additive | | | | | |
| | | | Acetic anhydride | 108-24-7 | 100.00000 | 0.00551 | |
| | | | Acetic acid | 64-19-7 | 60.00000 | 0.00330 | |
| FR-66 | Halliburton | Friction Reducer | | | | | |
| | | | Hydrotreated light petroleum distillate | 64742-47-8 | 30.00000 | 0.00814 | |
| MC B-8614 | Multi-Chem | Biocide | | | | | |
| | | | Glutaraldehyde | 111-30-8 | 30.00000 | 0.00503 | |
| | | | Alkyl (C12-16) dimethylbenzylammonium chloride | 68424-85-1 | 5.00000 | 0.00084 | |
| OPTIFLO-HTE | Halliburton | Breaker | | | | | |
| | | | Walnut hulls | NA | 100.00000 | 0.00246 | |
| | | | Crystalline silica, quartz | 14808-60-7 | 30.00000 | 0.00074 | |
| SP BREAKER | Halliburton | Breaker | | | | | |
| | | | Sodium persulfate | 7775-27-1 | 100.00000 | 0.00193 | |
| HAI-404M | Halliburton | Corrosion Inhibitor | | | | | |
| | | | Isopropanol | 67-63-0 | 30.00000 | 0.00030 | |
| | | | Aldehyde | Confidential | 30.00000 | 0.00030 | |
| | | | Methanol | 67-56-1 | 30.00000 | 0.00030 | |
| | | | Quaternary ammonium salt | Confidential | 10.00000 | 0.00010 | |
| Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS. | | | | | | | |
| | | Other Ingredient(s) | | | | | |
| | | | Water | 7732-18-5 | | 0.66189 | |
| | | Other Ingredient(s) | | | | | |
| | | | Oxyalkylated Phenolic Resin | 63428-92-2 | | 0.02566 | |
| | | Other Ingredient(s) | | | | | |
| | | | Oxyalkylated Phenolic Resin | 29316-47-0 | | 0.00855 | |
| | | Other Ingredient(s) | | | | | |
| | | | Polyacrylamide Copolymer | 62649-23-4 | | 0.00814 | |
| | | Other Ingredient(s) | | | | | |
| | | | Sodium chloride | 7647-14-5 | | 0.00345 | |
| | | Other Ingredient(s) | | | | | |
| | | | Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex | 121888-68-4 | | 0.00237 | |
| | | Other Ingredient(s) | | | | | |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Quaternary Amine | 34004-36-9 | | 0.00209 | |
| | | Other Ingredient(s) | | | | | |
| | | | Alcohols, C12-16, ethoxylated | 68551-12-2 | | 0.00146 | |
| | | Other Ingredient(s) | | | | | |
| | | | Ammonium chloride | 12125-02-9 | | 0.00136 | |
| | | Other Ingredient(s) | | | | | |
| | | | Tall oil acid diethanolamide | 68155-20-4 | | 0.00136 | |
| | | Other Ingredient(s) | | | | | |
| | | | Cured Acrylic Resin | 9002-98-6 | | 0.00074 | |
| | | Other Ingredient(s) | | | | | |
| | | | Silica gel | 112926-00-8 | | 0.00047 | |
| | | Other Ingredient(s) | | | | | |
| | | | Surfactant Mixture | 67254-71-1 | | 0.00047 | |
| | | Other Ingredient(s) | | | | | |
| | | | Surfactant Mixture | 56449-46-8 | | 0.00047 | |
| | | Other Ingredient(s) | | | | | |
| | | | Quaternary Amine | 3327-22-8 | | 0.00042 | |
| | | Other Ingredient(s) | | | | | |
| | | | Naphthenic acid ethoxylate | 68410-62-8 | | 0.00030 | |
| | | Other Ingredient(s) | | | | | |
| | | | Sorbitan, mono-9-octadecenoate, (Z) | 1338-43-8 | | 0.00027 | |
| | | Other Ingredient(s) | | | | | |
| | | | Sorbitan monooleate polyoxyethylene derivative | 9005-65-6 | | 0.00027 | |
| | | Other Ingredient(s) | | | | | |
| | | | Enzyme | 9025-56-3 | | 0.00012 | |
| | | Other Ingredient(s) | | | | | |
| | | | Fatty Acids, Tall Oil | 61790-12-3 | | 0.00010 | |
| | | Other Ingredient(s) | | | | | |
| | | | Polyethoxylated fatty amine salt | 61791-26-2 | | 0.00010 | |
| | | Other Ingredient(s) | | | | | |
| | | | Amines, coco alkyl, ethoxylated | 61791-14-8 | | 0.00005 | |
| | | Other Ingredient(s) | | | | | |
| | | | Crystalline Silica, Quartz | 14808-60-7 | | 0.00005 | |
| | | Other Ingredient(s) | | | | | |
| | | | Amine Salts | 593-81-7 | | 0.00004 | |
| | | Other Ingredient(s) | | | | | |
| | | | Quaternary Amine | 75-50-3 | | 0.00004 | |
| | | Other Ingredient(s) | | | | | |
| | | | Amine Salts | 75-57-0 | | 0.00004 | |
| | | Other Ingredient(s) | | | | | |
| | | | Cured Acrylic Resin | Confidential | | 0.00002 | |
| | | Other Ingredient(s) | | | | | |
| | | | C.I. Pigment Red 5 | 6410-41-9 | | 0.00002 | |
| | | Other Ingredient(s) | | | | | |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Methanol | 67-56-1 | | 0.00002 | |
| | | Other Ingredient(s) | | | | | |
| | | | Ammonium phosphate | 7722-76-1 | | 0.00001 | |
| | | Other Ingredient(s) | | | | | |
| | | | Sodium iodide | 7681-82-5 | | 0.00001 | |
| | | Other Ingredient(s) | | | | | |
| | | | Phosphoric Acid | 7664-38-2 | | 0.00000 | |
| | | Other Ingredient(s) | | | | | |
| | | | Sodium sulfate | 7757-82-6 | | 0.00000 | |

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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# Stimulation Design Worksheet

| | | | | | |
|---|---|---|---|---|---|
| Company | Ultra Petroleum | Three Rivers Fed. 8-52-820 | API | 43-047-52770 | |
| Formation | Green River | Zone 1 | Temperature | 169 | °F |
| Perfs | 6512 - 6629 | Fluid System: | taFrac 140 (14) Hybrid | | |

Liquid Additives ----------

| Stage | Fluid | Fluid | Prop Conc | Prop | Slurry Vol | Slurry | Treating | Stage | Exposure | WG-36 | LoSurf-300D | CLA-Web | B-8614 | MX 2-2822 | BC-140 | Optiflo-HTE | SP Breaker | FR-66 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | | Rate | Pressure | Pump Time | Time | Gel | Surfactant | Clay Control | Biocide | Scale Inh. | Crosslinker | Breaker | Breaker | Frict. Red. |
| | | (gal) | (ppg) | (lbs) | (bbls) | (bpm) | (psi) | (h:min:sec) | (h:min:sec) | (ppt) | (gpt) | (gpt) | (gpt) | (gpt) | (gpt) | (ppt) | (ppt) | (gpt) |
| 1 | Load & Break | 1113 | | | 26.5 | 9.0 | 477 | 0:02:57 | 0:55:21 | | 1.00 | 0.50 | 0.20 | | | | | 0.50 |
| 2 | 1000 gal 15% HCl Acid | 996 | | | 23.7 | 8.8 | 2247 | 0:02:42 | 0:52:24 | | | | | | | | | |
| 3 | Pad | 29362 | | | 699.1 | 44.7 | 3160 | 0:15:38 | 0:49:43 | | 1.00 | 0.50 | 0.20 | 0.99 | | | | 0.50 |
| 4 | 0.35#/gal 20/40 White | 40818 | 0.35 | 14268 | 987.2 | 55.0 | 3034 | 0:17:57 | 0:34:04 | | 1.00 | 0.50 | 0.20 | 0.99 | | | | 0.50 |
| 5 | 0.35#/gal 20/40 White | 3081 | 0.58 | 1778 | 75.3 | 55.3 | 2969 | 0:01:22 | 0:16:07 | | 1.00 | 0.50 | 0.20 | 2.00 | | | | 0.50 |
| 6 | Pad | 4867 | | | 115.9 | 55.7 | 3009 | 0:02:05 | 0:14:46 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 0.50 | |
| 7 | 2.0 #/gal 20/40 White | 8816 | 1.99 | 17521 | 228.8 | 55.5 | 3038 | 0:04:07 | 0:12:41 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 0.50 | |
| 8 | 4.0 #/gal 20/40 White | 4994 | 3.97 | 19805 | 140.2 | 55.5 | 2914 | 0:02:32 | 0:08:34 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 1.00 | |
| 9 | 6.0 #/gal 20/40 White | 5523 | 3.95 | 21828 | 155.0 | 55.5 | 2781 | 0:02:48 | 0:06:02 | 18.00 | 1.00 | 0.50 | | | 1.80 | 1.00 | 1.00 | |
| 10 | Flush (+3 bbls) | 6694 | | | 159.4 | 49.2 | 2808 | 0:03:14 | 0:03:14 | | 1.00 | 0.50 | 0.20 | | | | | 0.50 |
| 12 | Hydration tank variance | 420 | | | 10.0 | | | | | 50.00 | | | | | | | | |
| | | | | | | | | | | **456.6** | **105.3** | **52.6** | **16.2** | **80.0** | **43.6** | **24.2** | **17.4** | **40.5** |
| | | | | 75,200 | 2594.6 | | | | Used | 445 | 116 | 44 | 27 | 88 | 45 | 24 | 17 | 41 |
| | | | | | | | | | % diff | -3% | 10% | -16% | 67% | 10% | 3% | | | |
| | | | | Average Rate | | 44.4 | | | Prime | | | | | | | | | |
| | | | | | | | | | Total | 445 | 116 | 44 | 27 | 88 | 45 | 24 | 17 | 41 |

| | | |
|---|---|---|
| **15% HCl Acid:** | **1,000** | ***gal*** |
| **Slickwater:** | **81,064** | ***gal*** |
| **18# DeltaFrac 140 (14):** | **24,200** | ***gal*** |
| **Total Fluid:** | **106,264** | ***gal*** |
| **Total Slurry:** | **108,973** | ***gal*** |
| **20/40 White:** | **75,200** | ***lbs*** |
| **Total Proppant:** | **75,200** | ***lbs*** |

| | |
|---|---|
| TOP PERF | 6,512 |
| BOTTOM PERF | 6,629 |
| MID PERF | 6,571 |
| BHT | 169 |
| BHT GRAD [°F/100-ft (+60°)] | |

| | |
|---|---|
| API # | 43-047-52770 |
| Sec. / Twp. / Rng. | S:8 / T:8S / R:20E |
| Well Name | Three Rivers Fed. 8-52-820 |
| Company | Ultra Petroleum |
| Formation | Green River |
| Fluid Systems | 18# DeltaFrac 140 (14) Hybrid |
| Date | November 11, 2013 |
| Base Fluid, lb/gal | 8.33 |
| Sales Order # | 900887797 |
| County and State | Uintah, UT |
| Zone 1 | |

| Total Perfs: 27 | | | |
|---|---|---|---|
| Top Perf | Bottom Perf | SPF | # of shots |
| 6512 | 6513 | 3 | 3 |
| 6534 | 6536 | 3 | 6 |
| 6564 | 6567 | 3 | 9 |
| 6574 | 6575 | 3 | 3 |
| 6627 | 6629 | 3 | 6 |
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|---|---|
| Start Time: | 6:48 AM |
| End Time: | 7:45 AM |
| Customer: | Joe Duncan |

# Stimulation Design Worksheet

| | | | | | |
|---|---|---|---|---|---|
| Company | Ultra Petroleum | Three Rivers Fed. 8-52-820 | API | 43-047-52770 | |
| Formation | Green River | Zone 2 | Temperature | 165 | °F |
| Perfs | 6283 - 6475 | Fluid System: taFrac 140 (14) Hybrid | | | |

Liquid Additives ----------

| Stage | Fluid | Fluid | Prop Conc | Prop Total | Slurry Vol | Slurry Rate | Treating Pressure | Stage Pump Time | Exposure Time | WG-36 Gel | LoSurf-300D Surfactant | CLA-Web Clay Control | B-8614 Biocide | MX 2-2822 Scale Inh. | BC-140 Crosslinker | Optiflo-HTE Breaker | SP Breaker Breaker | FR-66 Frict. Red. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (gal) | (ppg) | (lbs) | (bbls) | (bpm) | (psi) | (h:min:sec) | (h:min:sec) | (ppt) | (gpt) | (gpt) | (gpt) | (gpt) | (gpt) | (ppt) | (ppt) | (gpt) |
| 1 | Load & Break | 403 | | | 9.6 | 6.2 | 1300 | 0:01:33 | 1:48:10 | | 1.00 | 0.50 | 0.20 | | | | | 0.50 |
| 2 | 1000 gal 15% HCl Acid | 1003 | | | 23.9 | 10.1 | 1482 | 0:02:22 | 1:46:37 | | | | | | | | | |
| 3 | Pad | 71895 | | | 1711.8 | 56.5 | 2442 | 0:30:18 | 1:44:15 | | 1.00 | 0.50 | 0.20 | 0.33 | | | | 0.40 |
| 4 | 0.35#/gal 20/40 White | 111604 | 0.35 | 39011 | 2699.3 | 59.5 | 2833 | 0:45:22 | 1:13:57 | | 1.00 | 0.50 | 0.20 | 0.33 | | | | 0.30 |
| 5 | 0.35#/gal 20/40 White | 4992 | 0.35 | 1752 | 120.7 | 59.7 | 3390 | 0:02:01 | 0:28:35 | 18.00 | 1.00 | 0.50 | 0.20 | 2.00 | 1.80 | 0.50 | 0.50 | 0.30 |
| 6 | Pad | 4977 | | | 118.5 | 59.9 | 3359 | 0:01:59 | 0:26:34 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 0.50 | |
| 7 | 2.0 #/gal 20/40 White | 22458 | 2.00 | 44812 | 583.0 | 59.4 | 3305 | 0:09:49 | 0:24:35 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 0.50 | |
| 8 | 4.0 #/gal 20/40 White | 12737 | 4.00 | 51001 | 358.2 | 60.4 | 3072 | 0:05:56 | 0:14:47 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 1.00 | |
| 9 | 6.0 #/gal 20/40 White | 10653 | 4.86 | 51824 | 309.5 | 60.2 | 3028 | 0:05:08 | 0:08:51 | 18.00 | 1.00 | 0.50 | | | 1.80 | 1.00 | 1.00 | |
| 10 | Flush (+3 bbls) | 6255 | | | 148.9 | 40.2 | 2525 | 0:03:42 | 0:03:42 | | 1.00 | 0.50 | 0.20 | | | | | 0.30 |
| 12 | Hydration tank variance | 840 | | | 20.0 | | | | | 50.00 | | | | | | | | |
| | | | | | | | | | | **1046.7** | **246.0** | **123.0** | **39.0** | **80.0** | **100.5** | **53.3** | **39.6** | **65.8** |
| | | | | 188,400 | 6093.8 | | | | | Used | 1035 | 257 | 104 | 42 | 81 | 103 | 52 | 41 | 67 |
| | | | | | | | | | | % diff | -1% | 4% | -15% | 8% | | 3% | -2% | 4% | 2% |
| | | | | Average Rate | | 47.2 | | | | Prime | | | | | | | | | |
| | | | | | | | | | | Total | 1035 | 257 | 104 | 42 | 81 | 103 | 52 | 41 | 67 |

| | | |
|---|---|---|
| **15% HCl Acid:** | **1,000** | ***gal*** |
| **Slickwater:** | **195,152** | ***gal*** |
| **18# DeltaFrac 140 (14):** | **50,825** | ***gal*** |
| **Total Fluid:** | **246,977** | ***gal*** |
| **Total Slurry:** | **255,939** | ***gal*** |
| **20/40 White:** | **188,400** | ***lbs*** |
| **Total Proppant:** | **188,400** | ***lbs*** |

| | |
|---|---|
| TOP PERF | 6,283 |
| BOTTOM PERF | 6,475 |
| MID PERF | 6,379 |
| BHT | 165 |
| BHT GRAD [°F/100-ft (+60')] | |

| | |
|---|---|
| API # | 43-047-52770 |
| Sec. / Twp. / Rng. | S:8 / T:8S / R:20E |
| Well Name | Three Rivers Fed. 8-52-820 |
| Company | Ultra Petroleum |
| Formation | Green River |
| Fluid Systems | 18# DeltaFrac 140 (14) Hybrid |
| Date | November 11, 2013 |
| Base Fluid, lb/gal | 8.33 |
| Sales Order # | 900887797 |
| County and State | Uintah, UT |
| **Zone 2** | |

| Total Perfs: 39 | | | |
|---|---|---|---|
| Top Perf | Bottom Perf | SPF | # of shots |
| 6283 | 6284 | 3 | 3 |
| 6303 | 6304 | 3 | 3 |
| 6317 | 6318 | 3 | 3 |
| 6355 | 6356 | 3 | 3 |
| 6398 | 6399 | 3 | 3 |
| 6409 | 6410 | 3 | 3 |
| 6426 | 6428 | 3 | 6 |
| 6440 | 6442 | 3 | 6 |
| 6450 | 6452 | 3 | 6 |
| 6474 | 6475 | 3 | 3 |
| | | | |
| | | | |
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| | |
|---|---|
| Start Time: | 9:26 AM |
| End Time: | 11:13 AM |
| Customer: | Joe Duncan |

# Stimulation Design Worksheet

| | | | | | |
|---|---|---|---|---|---|
| Company | Ultra Petroleum | Three Rivers Fed. 8-52-820 | API | 43-047-52770 | |
| Formation | Green River | Zone 3 | Temperature | 161 | °F |
| Perfs | 6057 - 6240 | Fluid System: taFrac 140 (14) Hybrid | | | |

Liquid Additives ----------

| Stage | Fluid | Fluid | Prop Conc | Prop Total | Slurry Vol | Slurry Rate | Treating Pressure | Stage Pump Time | Exposure Time | WG-36 Gel | LoSurf-300D Surfactant | CLA-Web Clay Control | B-8614 Biocide | MX 2-2822 Scale Inh. | BC-140 Crosslinker | Optiflo-HTE Breaker | SP Breaker Breaker | FR-66 Frict. Red. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (gal) | (ppg) | (lbs) | (bbls) | (bpm) | (psi) | (h:min:sec) | (h:min:sec) | (ppt) | (gpt) | (gpt) | (gpt) | (gpt) | (gpt) | (ppt) | (ppt) | (gpt) |
| 1 | Load & Break | 590 | | | 14.0 | 6.8 | 1352 | 0:02:04 | 2:48:44 | | 1.00 | 0.50 | 0.20 | | | | | 0.50 |
| 2 | 1000 gal 15% HCl Acid | 1009 | | | 24.0 | 10.4 | 1528 | 0:02:19 | 2:46:40 | | | | | | | | | |
| 3 | Pad | 64483 | | | 1535.3 | 55.8 | 2410 | 0:27:31 | 2:44:21 | | 1.00 | 0.50 | 0.20 | 0.37 | | | | 0.30 |
| 4 | 0.35#/gal 20/40 White | 99195 | 0.35 | 34710 | 2399.2 | 60.5 | 2441 | 0:39:39 | 2:16:51 | | 1.00 | 0.50 | 0.20 | 0.37 | | | | 0.30 |
| 5 | 0.35#/gal 20/40 White | 5032 | 0.34 | 1730 | 121.7 | 53.7 | 2372 | 0:02:16 | 1:37:11 | | 1.00 | 0.50 | 0.20 | 2.00 | 1.80 | | 0.50 | 0.30 |
| 6 | Pad | 22347 | | | 532.1 | 46.4 | 2362 | 0:11:28 | 1:34:55 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 0.50 | |
| 7 | 2.0 #/gal 20/40 White | 20773 | 1.84 | 38320 | 535.9 | 58.9 | 2456 | 0:09:06 | 1:23:27 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.90 | 1.00 | 0.50 | |
| 10 | Flush (+10 bbls) | 6343 | | | 151.0 | 5.4 | 1546 | 0:27:58 | 1:14:21 | | 1.00 | 0.50 | 0.20 | | | | | 0.30 |
| 6 | Pad | 5088 | | | 532.1 | 26.3 | 1867 | 0:20:14 | 0:46:23 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.90 | 1.00 | 0.50 | |
| 7 | 2.0 #/gal 20/40 White | 8937 | 1.97 | 17610 | 494.6 | 58.9 | 2587 | 0:08:24 | 0:26:09 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.90 | 1.00 | 0.50 | |
| 8 | 4.0 #/gal 20/40 White | 5748 | 4.01 | 23030 | 161.7 | 58.3 | 2558 | 0:02:46 | 0:17:46 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.90 | 1.00 | 1.00 | |
| 9 | 6.0 #/gal 20/40 White | 10696 | 4.91 | 52500 | 311.2 | 58.4 | 2443 | 0:05:20 | 0:14:59 | 18.00 | 1.00 | 0.50 | | | 1.90 | 1.00 | 1.00 | |
| 10 | Flush (+3 bbls) | 6004 | | | 143.0 | 14.8 | 1445 | 0:09:40 | 0:09:40 | | 1.00 | 0.50 | 0.20 | | | | | 0.30 |
| 12 | Hydration tank variance | 420 | | | 10.0 | | | | | 50.00 | | | | | | | | |
| | | | | | | | | | | **1345.6** | **255.2** | **127.6** | **36.3** | **80.0** | **146.6** | **73.6** | **47.5** | **54.6** |
| | | | | 167,900 | 6951.7 | | | | Used | 1323 | 265 | 107 | 39 | 81 | 150 | 73 | 50 | 54 |
| | | | | | | | | | % diff | -2% | 4% | -16% | 7% | | 2% | | 5% | |
| | | | | Average Rate | | 39.6 | | | Prime | | | | | | | | | |
| | | | | | | | | | Total | 1323 | 265 | 107 | 39 | 81 | 150 | 73 | 50 | 54 |

| | | |
|---|---|---|
| **15% HCl Acid:** | **1,000** | ***gal*** |
| **Slickwater:** | **181,656** | ***gal*** |
| **18# DeltaFrac 140 (14):** | **73,589** | ***gal*** |
| **Total Fluid:** | **256,245** | ***gal*** |
| **Total Slurry:** | **291,970** | ***gal*** |
| **20/40 White:** | **167,900** | ***lbs*** |
| **Total Proppant:** | **167,900** | ***lbs*** |

| | |
|---|---|
| TOP PERF | 6,057 |
| BOTTOM PERF | 6,240 |
| MID PERF | 6,149 |
| BHT | 161 |

BHT GRAD [°F/100-ft (+60')]

| | |
|---|---|
| API # | 43-047-52770 |
| Sec. / Twp. / Rng. | S:8 / T:8S / R:20E |
| Well Name | Three Rivers Fed. 8-52-820 |
| Company | Ultra Petroleum |
| Formation | Green River |
| Fluid Systems | 18# DeltaFrac 140 (14) Hybrid |
| Date | November 11, 2013 |
| Base Fluid, lb/gal | 8.33 |
| Sales Order # | 900887797 |
| County and State | Uintah, UT |
| Zone 3 | |

| Total Perfs: 42 | | | |
|---|---|---|---|
| Top Perf | Bottom Perf | SPF | # of shots |
| 6057 | 6058 | 3 | 3 |
| 6068 | 6069 | 3 | 3 |
| 6080 | 6081 | 3 | 3 |
| 6097 | 6098 | 3 | 3 |
| 6123 | 6124 | 3 | 3 |
| 6154 | 6156 | 3 | 6 |
| 6168 | 6170 | 3 | 6 |
| 6182 | 6183 | 3 | 3 |
| 6207 | 6208 | 3 | 3 |
| 6221 | 6222 | 3 | 3 |
| 6238 | 6240 | 3 | 6 |
| | | | |
| | | | |
| | | | |

| | |
|---|---|
| Start Time: | 12:30 PM |
| End Time: | 2:50 PM |
| Customer: | Joe Duncan |

# Stimulation Design Worksheet

| | | | | | |
|---|---|---|---|---|---|
| Company | Ultra Petroleum | Three Rivers Fed. 8-52-820 | API | 43-047-52770 | |
| Formation | Green River | Zone 4 | Temperature | 157 | °F |
| Perfs | 5790 - 6021 | Fluid System: taFrac 140 (12) Hybrid | | | |

Liquid Additives ----------

| Stage | Fluid | Fluid | Prop Conc | Prop Total | Slurry Vol | Slurry Rate | Treating Pressure | Stage Pump Time | Exposure Time | WG-38 Gel | LoSurf-300D Surfactant | CLA-Web Clay Control | B-8614 Biocide | MX 2-2822 Scale Inh. | BC-140 Crosslinker | Optiflo-HTE Breaker | SP Breaker Breaker | FR-66 Frict. Red. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (gal) | (ppg) | (lbs) | (bbls) | (bpm) | (psi) | (h:min:sec) | (h:min:sec) | (ppt) | (gpt) | (gpt) | (gpt) | (gpt) | (gpt) | (ppt) | (ppt) | (gpt) |
| 1 | Load & Break | 9279 | | | 220.9 | 3.9 | 1804 | 0:56:39 | 2:38:03 | | 1.00 | 0.50 | 0.20 | | | | | |
| 2 | 1000 gal 15% HCl Acid | 1023 | | | 24.4 | 10.3 | 1990 | 0:02:22 | 1:41:24 | | | | | | | | | |
| 3 | Pad | 61709 | | | 1469.3 | 55.3 | 2572 | 0:26:34 | 1:39:02 | | 1.00 | 0.50 | 0.20 | 0.36 | | | | 0.36 |
| 4 | 0.5#/gal 20/40 White | 105244 | 0.50 | 52570 | 2562.4 | 61.5 | 2936 | 0:41:40 | 1:12:28 | | 1.00 | 0.50 | 0.20 | 0.36 | | | | 0.50 |
| 5 | 0.5#/gal 20/40 White | 5040 | 0.47 | 2380 | 122.6 | 61.4 | 3125 | 0:02:00 | 0:30:48 | 18.00 | 1.00 | 0.50 | 0.20 | 2.00 | 1.90 | 1.00 | 0.50 | 0.50 |
| 6 | Pad | 3455 | | | 82.3 | 61.7 | 3155 | 0:01:20 | 0:28:48 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.90 | 1.00 | 0.50 | |
| 7 | 2.0 #/gal 20/40 White | 21684 | 2.00 | 43400 | 563.0 | 59.3 | 2811 | 0:09:30 | 0:27:28 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 0.50 | |
| 8 | 4.0 #/gal 20/40 White | 12336 | 3.98 | 49150 | 346.7 | 59.3 | 2442 | 0:05:51 | 0:17:58 | 18.00 | 1.00 | 0.50 | | 0.25 | 1.80 | 1.00 | 1.00 | |
| 9 | 6.0 #/gal 20/40 White | 10108 | 4.85 | 49000 | 293.5 | 60.3 | 2291 | 0:04:52 | 0:12:08 | 18.00 | 1.00 | 0.50 | | | 1.60 | 1.00 | 1.00 | |
| 10 | Flush (+3 bbls) | 5855 | | | 139.4 | 19.2 | 1403 | 0:07:16 | 0:07:16 | | 1.00 | 0.50 | 0.20 | | | | | 0.50 |
| | | | | | | | | | | **947.2** | **234.7** | **117.4** | **37.4** | **80.0** | **93.5** | **52.6** | **37.5** | **80.2** |
| | | | | | | | | | | Used | 980 | 245 | 100 | 40 | 81 | 96 | 51 | 39 | 82 |
| | | | | | | | | | | % diff | 3% | 4% | -15% | 7% | | 3% | -3% | 4% | 2% |
| | | | | | | | | | | Prime | | | | | | | | | |
| | | | | | | | | | | Total | 980 | 245 | 100 | 40 | 81 | 96 | 51 | 39 | 82 |

| | | |
|---|---|---|
| | | |
| **15% HCl Acid:** | **1,000** | ***gal*** |
| **Slickwater:** | **187,150** | ***gal*** |
| **16# DeltaFrac 140 (12):** | **47,583** | ***gal*** |
| **Total Fluid:** | **235,733** | ***gal*** |
| **Total Slurry:** | **235,345** | ***gal*** |
| **20/40 White:** | **196,500** | ***lbs*** |
| **Total Proppant:** | **196,500** | ***lbs*** |

196,500 5603.5

Average Rate 45.2

| | |
|---|---|
| TOP PERF | 5,790 |
| BOTTOM PERF | 6,021 |
| MID PERF | 5,906 |
| BHT | 157 |

BHT GRAD [°F/100-ft (+60°)]

| | |
|---|---|
| API # | 43-047-52770 |
| Sec. / Twp. / Rng. | S:8 / T:8S / R:20E |
| Well Name | Three Rivers Fed. 8-52-820 |
| Company | Ultra Petroleum |
| Formation | Green River |
| Fluid Systems | 16# DeltaFrac 140 (12) Hybrid |
| Date | November 11, 2013 |
| Base Fluid, lb/gal | 8.33 |
| Sales Order # | 900887797 |
| County and State | Uintah, UT |
| Zone 4 | |

| Total Perfs: 39 | | | |
|---|---|---|---|
| Top Perf | Bottom Perf | SPF | # of shots |
| 5790 | 5792 | 3 | 6 |
| 5802 | 5803 | 3 | 3 |
| 5834 | 5835 | 3 | 3 |
| 5845 | 5846 | 3 | 3 |
| 5875 | 5877 | 3 | 6 |
| 5894 | 5895 | 3 | 3 |
| 5947 | 5948 | 3 | 3 |
| 5955 | 5956 | 3 | 3 |
| 5984 | 5985 | 3 | 3 |
| 6000 | 6001 | 3 | 3 |
| 6020 | 6021 | 3 | 3 |
| | | | |
| | | | |
| | | | |

| | |
|---|---|
| Start Time: | 4:00 PM |
| End Time: | 6:32 PM |
| Customer: | Joe Duncan |

# Stimulation Design Worksheet

| | | | | | |
|---|---|---|---|---|---|
| Company | Ultra Petroleum | Three Rivers Fed. 8-52-820 | API | 43-047-52770 | |
| Formation | Green River | Zone 5 | Temperature | 151 | °F |
| Perfs | 5463 - 5734 | Fluid System: taFrac 140 (12) Hybrid | | | |

Liquid Additives ----------

| Stage | Fluid | Fluid | Prop Conc | Prop Total | Slurry Vol | Slurry Rate | Treating Pressure | Stage Pump Time | Exposure Time | WG-36 Gel | LoSurf-300D Surfactant | CLA-Web Clay Control | B-8614 Biocide | MX 2-2822 Scale Inh. | BC-140 Crosslinker | Optiflo-HTE Breaker | SP Breaker Breaker | FR-66 Frict. Red. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (gal) | (ppg) | (lbs) | (bbls) | (bpm) | (psi) | (h:min:sec) | (h:min:sec) | (ppt) | (gpt) | (gpt) | (gpt) | (gpt) | (gpt) | (ppt) | (ppt) | (gpt) |
| 1 | Load & Break | 532 | | | 12.7 | 7.3 | 1297 | 0:01:44 | 1:10:40 | | 1.00 | 0.50 | 0.20 | | | | | 0.50 |
| 2 | 1000 gal 15% HCl Acid | 1001 | | | 23.8 | 10.7 | 1569 | 0:02:14 | 1:08:56 | | | | | | | | | |
| 3 | Pad | 38212 | | | 909.8 | 50.3 | 2694 | 0:18:05 | 1:06:42 | | 1.00 | 0.50 | 0.20 | 0.57 | | | | 0.50 |
| 4 | 0.5#/gal 20/40 White | 58288 | 0.53 | 31110 | 1421.3 | 61.3 | 2923 | 0:23:11 | 0:48:37 | | 1.00 | 0.50 | 0.20 | 0.57 | | | | 0.30 |
| 5 | 0.5#/gal 20/40 White | 9028 | 0.29 | 2620 | 217.8 | 61.4 | 2891 | 0:03:33 | 0:25:26 | 16.00 | 1.00 | 0.50 | 0.20 | 2.00 | 1.60 | | 0.50 | 0.30 |
| 6 | Pad | 6983 | | | 166.3 | 60.4 | 2985 | 0:02:45 | 0:21:53 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 0.50 | |
| 7 | 2.0 #/gal 20/40 White | 13203 | 1.98 | 26180 | 342.6 | 60.2 | 2914 | 0:05:41 | 0:19:08 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 0.50 | |
| 8 | 4.0 #/gal 20/40 White | 7512 | 4.01 | 30120 | 211.3 | 59.6 | 2699 | 0:03:33 | 0:13:27 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 1.00 | |
| 9 | 6.0 #/gal 20/40 White | 7118 | 4.25 | 30270 | 202.1 | 59.6 | 2634 | 0:03:23 | 0:09:54 | 16.00 | 1.00 | 0.50 | | | 1.60 | 1.00 | 1.00 | |
| 10 | Flush (+3 bbls) | 5509 | | | 131.2 | 20.2 | 1539 | 0:06:31 | 0:06:31 | | 1.00 | 0.50 | 0.20 | | | | | 0.30 |
| 12 | Hydration tank variance | | | | | | | | | 50.00 | | | | | | | | |
| | | | | | | | | | | 701.5 | 146.4 | 73.2 | 22.3 | 80.0 | 70.2 | 34.8 | 29.2 | 41.2 |
| | | | | | 120,300 | 3626.1 | | | Used | 670 | 160 | 62 | 29 | 87 | 73 | 34 | 30 | 42 |
| | | | | | | | | | % diff | -4% | 9% | -15% | 30% | 9% | 4% | | | |
| | | | | | Average Rate | 45.1 | | | Prime | | | | | | | | | |
| | | | | | | | | | Total | 670 | 160 | 62 | 29 | 87 | 73 | 34 | 30 | 42 |

| | | |
|---|---|---|
| **15% HCl Acid:** | **1,000** | ***gal*** |
| **Slickwater:** | **111,570** | ***gal*** |
| **16# DeltaFrac 140 (12):** | **34,816** | ***gal*** |
| **Total Fluid:** | **147,386** | ***gal*** |
| **Total Slurry:** | **152,297** | ***gal*** |
| **20/40 White:** | **120,300** | ***lbs*** |
| **Total Proppant:** | **120,300** | ***lbs*** |

| | |
|---|---|
| TOP PERF | 5,463 |
| BOTTOM PERF | 5,734 |
| MID PERF | 5,599 |
| BHT | 151 |
| BHT GRAD [°F/100-ft (+60')] | |

| | |
|---|---|
| API # | 43-047-52770 |
| Sec. / Twp. / Rng. | S:8 / T:8S / R:20E |
| Well Name | Three Rivers Fed. 8-52-820 |
| Company | Ultra Petroleum |
| Formation | Green River |
| Fluid Systems | 16# DeltaFrac 140 (12) Hybrid |
| Date | November 12, 2013 |
| Base Fluid, lb/gal | 8.33 |
| Sales Order # | 900887797 |
| County and State | Uintah, UT |
| **Zone 5** | |

| Total Perfs: 36 | | | |
|---|---|---|---|
| Top Perf | Bottom Perf | SPF | # of shots |
| 5463 | 5464 | 3 | 3 |
| 5480 | 5481 | 3 | 3 |
| 5508 | 5509 | 3 | 3 |
| 5604 | 5605 | 3 | 3 |
| 5613 | 5614 | 3 | 3 |
| 5631 | 5632 | 3 | 3 |
| 5640 | 5641 | 3 | 3 |
| 5664 | 5665 | 3 | 3 |
| 5684 | 5686 | 3 | 6 |
| 5706 | 5707 | 3 | 3 |
| 5733 | 5734 | 3 | 3 |
| | | | |
| | | | |
| | | | |

| | |
|---|---|
| Start Time: | 7:53 AM |
| End Time: | 9:00 AM |
| Customer: | Joe Duncan |

# Stimulation Design Worksheet

Company Ultra Petroleum | Three Rivers Fed. 8-52-820 | API 43-047-52770
Formation Green River | Zone 6 | Temperature 146 °F
Perfs 5155 - 5365 | Fluid System: taFrac 140 (12) Hybrid

Liquid Additives ----------

| Stage | Fluid | Fluid | Prop Conc | Prop Total | Slurry Vol | Slurry Rate | Treating Pressure | Stage Pump Time | Exposure Time | WG-36 Gel | LoSurf-300D Surfactant | CLA-Web Clay Control | B-8614 Biocide | MX 2-2822 Scale Inh. | BC-140 Crosslinker | Optiflo-HTE Breaker | SP Breaker Breaker | FR-66 Frict. Red. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (gal) | (ppg) | (lbs) | (bbls) | (bpm) | (psi) | (h:min:sec) | (h:min:sec) | (ppt) | (gpt) | (gpt) | (gpt) | (gpt) | (gpt) | (ppt) | (ppt) | (gpt) |
| 1 | Load & Break | 249 | | | 5.9 | 5.9 | 2440 | 0:01:00 | 0:51:20 | | 1.00 | 0.50 | 0.20 | | | | | 0.50 |
| 2 | 1000 gal 15% HCl Acid | 998 | | | 23.8 | 10.3 | 3012 | 0:02:18 | 0:50:20 | | | | | | | | | |
| 3 | Pad | 21776 | | | 518.5 | 36.3 | 3327 | 0:14:17 | 0:48:02 | | 1.00 | 0.50 | 0.20 | 1.18 | | | | 0.30 |
| 4 | 0.5#/gal 20/40 White | 28000 | 0.57 | 15960 | 683.9 | 48.3 | 3259 | 0:14:10 | 0:33:45 | | 1.00 | 0.50 | 0.20 | 1.18 | | | | 0.30 |
| 5 | 0.5#/gal 20/40 White | 8999 | 0.29 | 2580 | 217.0 | 49.7 | 3197 | 0:04:22 | 0:19:35 | 16.00 | 1.00 | 0.50 | 0.20 | 2.00 | 1.60 | | 0.50 | 0.30 |
| 6 | Pad | 766 | | | 18.2 | 50.0 | 3224 | 0:00:22 | 0:15:13 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 0.50 | |
| 7 | 2.0 #/gal 20/40 White | 7281 | 1.99 | 14470 | 188.9 | 49.4 | 3135 | 0:03:49 | 0:14:51 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 0.50 | |
| 8 | 4.0 #/gal 20/40 White | 4151 | 4.00 | 16590 | 116.7 | 49.1 | 2954 | 0:02:23 | 0:11:02 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 1.00 | |
| 9 | 6.0 #/gal 20/40 White | 4451 | 3.71 | 16530 | 123.8 | 48.9 | 2717 | 0:02:32 | 0:08:39 | 16.00 | 1.00 | 0.50 | | | 1.60 | 1.00 | 1.00 | |
| 10 | Flush (+3 bbls) | 5167 | | | 123.0 | 20.1 | 1627 | 0:06:07 | 0:06:07 | | 1.00 | 0.50 | 0.20 | | | | | 0.30 |
| | | | | | | | | | | **410.4** | **80.8** | **40.4** | **12.8** | **80.0** | **41.0** | **16.6** | **17.1** | **19.3** |
| | | | | | | | | | | Used | 400 | 84 | 34 | 14 | 81 | 43 | 16 | 18 | 19 |
| | | | | | | | | | | % diff | -3% | 4% | -16% | 9% | 1% | 5% | | | |
| | | | | | | | | | | Prime | | | | | | | | | |
| | | | | | | | | | | Total | 400 | 84 | 34 | 14 | 81 | 43 | 16 | 18 | 19 |

| | | |
|---|---|---|
| | | |
| **15% HCl Acid:** | **1,000** | ***gal*** |
| **Slickwater:** | **64,188** | ***gal*** |
| **16# DeltaFrac 140 (12):** | **16,649** | ***gal*** |
| **Total Fluid:** | **81,837** | ***gal*** |
| **Total Slurry:** | **84,580** | ***gal*** |
| **20/40 White:** | **66,130** | ***lbs*** |
| **Total Proppant:** | **66,130** | ***lbs*** |

66,130 2013.8

Average Rate 36.8

| | |
|---|---|
| TOP PERF | 5,155 |
| BOTTOM PERF | 5,365 |
| MID PERF | [illegible] |
| BHT | [illegible] |

BHT GRAD [°F/100-ft (+60')]

| | |
|---|---|
| API # | 43-047-52770 |
| Sec. / Twp. / Rng. | S:8 / T:8S / R:20E |
| Well Name | Three Rivers Fed. 8-52-820 |
| Company | Ultra Petroleum |
| Formation | Green River |
| Fluid Systems | 16# DeltaFrac 140 (12) Hybrid |
| Date | November 12, 2013 |
| Base Fluid, lb/gal | 8.33 |
| Sales Order # | 900887797 |
| County and State | Uintah, UT |
| **Zone 6** | |

| Total Perfs: 21 | | | |
|---|---|---|---|
| Top Perf | Bottom Perf | SPF | # of shots |
| 5155 | 5156 | 3 | 3 |
| 5222 | 5223 | 3 | 3 |
| 5292 | 5293 | 3 | 3 |
| 5314 | 5315 | 3 | 3 |
| 5321 | 5322 | 3 | 3 |
| 5363 | 5365 | 3 | 6 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | |
|---|---|
| Start Time: | 10:00 AM |
| End Time: | 10:48 AM |
| Customer: | Joe Duncan |

# Stimulation Design Worksheet

| | | | | | |
|---|---|---|---|---|---|
| Company | Ultra Petroleum | Three Rivers Fed. 8-52-820 | API | 43-047-52770 | |
| Formation | Green River | Zone 7 Temperature | 141 | °F | |
| Perfs | 4854 - 5093 | Fluid System: taFrac 140 (12) Hybrid | | | |

Liquid Additives ----------

| Stage | Fluid | Fluid | Prop Conc | Prop Total | Slurry Vol | Slurry Rate | Treating Pressure | Stage Pump Time | Exposure Time | WG-36 Gel | LoSurf-300D Surfactant | CLA-Web Clay Control | B-8614 Biocide | MX 2-2822 Scale Inh. | BC-140 Crosslinker | Optiflo-HTE Breaker | SP Breaker Breaker | FR-66 Frict. Red. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (gal) | (ppg) | (lbs) | (bbls) | (bpm) | (psi) | (h:min:sec) | (h:min:sec) | (ppt) | (gpt) | (gpt) | (gpt) | (gpt) | (gpt) | (ppt) | (ppt) | (gpt) |
| 1 | Load & Break | 331 | | | 7.9 | 9.2 | 1388 | 0:00:51 | 1:15:38 | | 1.00 | 0.50 | 0.20 | | | | | 0.50 |
| 2 | 1000 gal 15% HCl Acid | 1066 | | | 25.4 | 10.4 | 1604 | 0:02:26 | 1:14:47 | | | | | | | | | |
| 3 | Pad | 45921 | | | 1093.4 | 53.8 | 2106 | 0:20:19 | 1:12:20 | | 1.00 | 0.50 | 0.20 | 0.52 | | | | 0.40 |
| 4 | 0.5#/gal 20/40 White | 76340 | 0.50 | 38130 | 1858.7 | 61.0 | 2293 | 0:30:28 | 0:52:01 | | 1.00 | 0.50 | 0.20 | 0.52 | | | | 0.30 |
| 5 | 0.5#/gal 20/40 White | 5048 | 0.52 | 2630 | 123.0 | 60.8 | 2462 | 0:02:01 | 0:21:33 | 16.00 | 1.00 | 0.50 | 0.20 | 2.00 | 1.60 | | 0.50 | 0.30 |
| 6 | Pad | 1083 | | | 25.8 | 60.5 | 2481 | 0:00:26 | 0:19:31 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 0.50 | |
| 7 | 2.0 #/gal 20/40 White | 16031 | 1.99 | 31910 | 416.1 | 59.9 | 2361 | 0:06:57 | 0:19:06 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 0.50 | |
| 8 | 4.0 #/gal 20/40 White | 8945 | 3.99 | 35730 | 251.5 | 53.7 | 1999 | 0:04:41 | 0:12:09 | 16.00 | 1.00 | 0.50 | | 0.25 | 1.60 | 1.00 | 1.00 | |
| 9 | 6.0 #/gal 20/40 White | 4596 | 7.49 | 34410 | 146.5 | 45.4 | 1625 | 0:03:14 | 0:07:28 | 16.00 | 1.00 | 0.50 | | | 1.60 | 1.00 | 1.00 | |
| 10 | Flush (Top Perf) | 4951 | | | 117.9 | 27.8 | 1602 | 0:04:14 | 0:04:14 | | 1.00 | 0.50 | 0.20 | | | | | 0.30 |
| | | | | | | | | | | **571.2** | **163.2** | **81.6** | **26.5** | **80.0** | **57.1** | **30.7** | **24.6** | **44.3** |
| | | | | | | | | | Used | 548 | 169 | 69 | 29 | 81 | 60 | 30 | 25 | 45 |
| | | | | | | | | | % diff | -4% | 4% | -15% | 9% | | 5% | | | |
| | | | | | | | | | Prime | | | | | | | | | |
| | | | | | | | | | Total | 548 | 169 | 69 | 29 | 81 | 60 | 30 | 25 | 45 |

| | | |
|---|---|---|
| | | |
| **15% HCl Acid:** | **1,000** | ***gal*** |
| **Slickwater:** | **132,657** | ***gal*** |
| **16# DeltaFrac 140 (12):** | **30,655** | ***gal*** |
| **Total Fluid:** | **164,312** | ***gal*** |
| **Total Slurry:** | **170,443** | ***gal*** |
| **20/40 White:** | **142,810** | ***lbs*** |
| **Total Proppant:** | **142,810** | ***lbs*** |

142,810 4058.2

Average Rate 44.3

| | |
|---|---|
| TOP PERF | 4,854 |
| BOTTOM PERF | 5,093 |
| MID PERF | 4,974 |
| BHT | 163 |

BHT GRAD [°F/100-ft (+60°)]

| | |
|---|---|
| API # | 43-047-52770 |
| Sec. / Twp. / Rng. | S:8 / T:8S / R:20E |
| Well Name | Three Rivers Fed. 8-52-820 |
| Company | Ultra Petroleum |
| Formation | Green River |
| Fluid Systems | 16# DeltaFrac 140 (12) Hybrid |
| Date | November 12, 2013 |
| Base Fluid, lb/gal | 8.33 |
| Sales Order # | 900887797 |
| County and State | Uintah, UT |
| Zone 7 | |

| Total Perfs: 36 | | | |
|---|---|---|---|
| Top Perf | Bottom Perf | SPF | # of shots |
| 4854 | 4855 | 3 | 3 |
| 4872 | 4873 | 3 | 3 |
| 4888 | 4889 | 3 | 3 |
| 4933 | 4934 | 3 | 3 |
| 4944 | 4945 | 3 | 3 |
| 4990 | 4992 | 3 | 6 |
| 5002 | 5003 | 3 | 3 |
| 5038 | 5040 | 3 | 6 |
| 5077 | 5078 | 3 | 3 |
| 5092 | 5093 | 3 | 3 |
| | | | |
| | | | |
| | | | |

| | |
|---|---|
| Start Time: | 1:03 PM |
| End Time: | 2:19 PM |
| Customer: | Joe Duncan |